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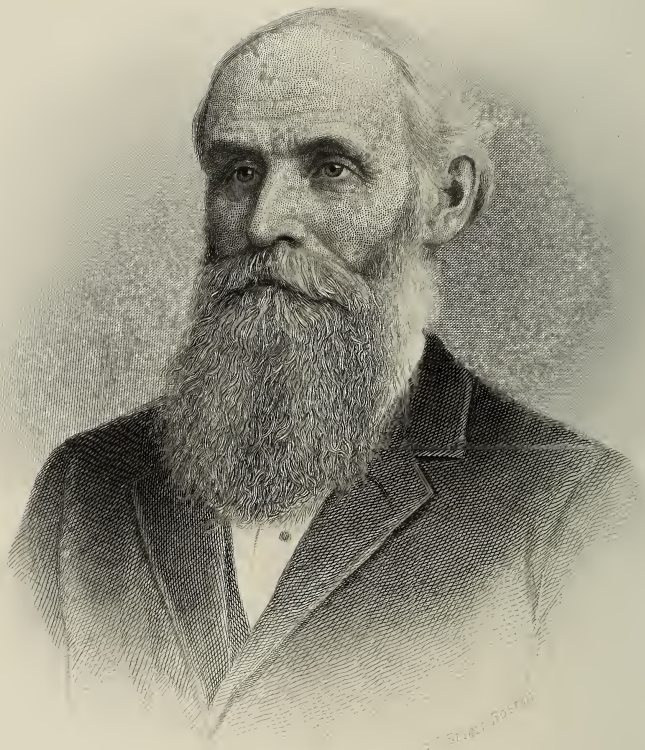

Benj. F. Clarke.

CATALOGUE

OF THE

Officers and Students

OF

BROWN UNIVERSITY

1891-92

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1892.

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Brown univ.

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Calendar, 1891-92

1891	*Sunday*	*Monday*	*Tuesday*	*Wednes.*	*Thursday*	*Friday*	*Saturday*
July	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	..
Aug.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Sep.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	.	.	..
Oct.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
	..	..	..	..	..	..	..
Nov.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	..	..	..	..	..
Dec.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..

1892	*Sunday*	*Monday*	*Tuesday*	*Wednes.*	*Thursday*	*Friday*	*Saturday*
Jan.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
Feb.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	..	..	..	..	..
Mar.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	31	..	..
Apr.	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
May	..	..	..	..	..	..	..
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
June	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	..	..

1892	*Sunday*	*Monday*	*Tuesday*	*Wednes.*	*Thursday*	*Friday*	*Saturday*
July	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
Aug.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
Sep.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
Oct.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
Nov.	30	31	..	..	..	..	..
	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	..	..	..
Dec.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31

COLLEGE CALENDAR FOR 1891-92

1891

September 2. *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).

September 14, 15. *Monday, Tuesday.* Examination of Delinquents in College studies.

September 14, 15. *Monday, Tuesday.* Examinations for admission to College, and to Advanced Standing.

September 16. *Wednesday.* **Academic Year Begins.**

November 26. *Thursday.* Thanksgiving Day. No College exercises on Thursday, Friday or Saturday of Thanksgiving week.

December 14, 19. *Monday to Saturday.* Examinations of College classes.

Christmas Holidays, from Saturday evening, December 19, 1891, to Monday evening, December 28, 1891.

December 29. *Tuesday.* **Second Term Begins.**

1892

January 28. *Thursday.* Day of Prayer for Colleges.

February 22. *Monday.* Washington's Birthday. No College exercises.

March 18-24. *Friday to Thursday.* Examinations of College classes.

Spring Recess, from Thursday evening, March 24, to Wednesday evening, March 30.

March 31. *Thursday.* **Third Term Begins.**

May 30.	*Monday.* Memorial Day. No College exercises.
June 10-16.	*Friday to Thursday.* Examinations of College classes.
June 16.	*Thursday.* Hicks Prize Debate.
June 17.	*Friday.* Class Day.
June 19.	*Sunday.* Baccalaureate Sermon.
June 20.	*Monday.* Sophomore Prize Declamation.
June 21.	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, at 9.30 A. M.
June 21.	*Tuesday.* Annual Alumni Meeting, in Manning Hall, at 4 P. M.
June 22.	*Wednesday.* One Hundred and Twenty-fourth Annual Commencement (fourth Wednesday in June).
June 23.	*Thursday.* Meeting of the Corporation, in the Old Chapel, University Hall.
June 23, 24, 25.	*Thursday, Friday, Saturday.* Examinations for admission to College.
	Summer Vacation
September 7.	*Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).
September 19, 20.	*Monday, Tuesday.* Examination of Delinquents in College studies.
September 19, 20.	*Monday, Tuesday.* Examinations for admission to College, and to Advanced Standing.
September 21.	*Wednesday.* Academic Year Begins.

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* Deceased.

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Edward T. Tucker, M. D., Secretary of the New Bedford Alumni.

* Deceased.

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†*Elton Professor of Natural Theology.*

* Deceased.
† Instruction in Natural Theology is at present given by the President.

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Wilson Hall.

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347 Brook Street; Office, 3 University Hall.

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Music Hall Building.

FRANK EVERETT LESTER,
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Washington Village.

JAMES SOLOMON BURDICK,
Instructor in the Machine Shop,
Ashton Street, corner Flora Street.

GEORGE MILTON GRAY,
Assistant in the Department of Biology,
62 George Street.

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On courses of study for special undergraduate students
Professors Clarke and Upton, and the Secretary.

On preparatory schools
Professors A. Harkness, Clarke, and Upton.

On examinations
Professors A. Harkness, Clarke, Williams, Poland, Davis, A. G. Harkness, Langdon, Sears, and Mr. Manning.

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Treasurer,

Zechariah Chafee, A. M., Providence.

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Advisory Committee,

The Secretary of the General Association, and the Secretaries of the Associations at Boston, Newport, Norwich, Fall River, Chicago, and New York.

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John Carter Brown Woods, A. M., LL. B.

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Professor Nathaniel F. Davis, A. M.

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Auditing Committee,
Reuben A. Guild, LL. D., Robert B. Chapman, A. M.

RISE AND CONSTITUTION OF THE UNIVERSITY

Brown University owes its origin to the happy convergence of two separate lines of influence. So early as 1762 a "resolution to erect a college and institute a seminary for the education of youth somewhere in North America" had been formed by the Philadelphia Baptist Association, under whose auspices the Hopewell Academy, in New Jersey, had already been established. As Rhode Island had been settled on the principle of perfect toleration in religious belief, it was decided to apply to its legislature for a charter.

Ever after the residence here, from 1729 to 1731, of the distinguished Dean Berkeley, subsequently Bishop of Cloyne, Newport had been the centre of a pronounced intellectual interest, while the memory of Berkeley's scheme to found a college in America, with the actual erection of colleges in several of the other colonies, made it impossible that the suggestion of a college for Rhode Island should be strange or unwelcome to thoughtful people in that colony. The charter was granted, and reads as follows :

> At the General Aſsembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Febr one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain, and so forth

WHEREAS Inſtitutions for liberal Education are highly beneficial to Society, by forming the rising Generation to Virtue Knowledge & useful Literature & thus preserving in the Community a Succeſsion of Men duly qualify'd for discharging the Offices of Life with usefulneſs & reputation they have therefore juſtly merited & received the attention & Encouragement of every wise and well regulated State, and whereas a Public School or Seminary erected for that purpose within this Colony, to which the Youth may freely resort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

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Cole Mr Barzilla Richmond		Nicholas Easton Esqre
	Mr John Brown	Arthur Fenner Esqre

with many other Perſons appear as undertakers in the valuable design, & thereupon a Petition has been preſer'd to this Aſsembly praying that full Liberty and Power may be granted unto such of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchiſes neceſsary for the purpose aforesaid—

Now, therefore know ye that being willing to encourage and patronise ſuch an honorable and useful Inſtitution, we the said Governor & Company in General Aſsembly convened do for ourselves and our

Succeſsors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant conſtitute ordain & declare & it is hereby enacted granted conſtituted ordained and declared that the

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Rev.d Ruſsel Mason	M.r John G. Wanton	Hon'ble Joseph Wanton Jun.r Esq.re
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oshua Clarke Esq.re	Rev.d Ezra Stiles	" Simon Pease Esq.re
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ohn Taylor Esq.re	Rev.d John Maxson	" Nicholas Easton Esq.re
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Azariah Dunham Esq.re	Rev.d John Gano	" Darius Seſsions Esq.re
M.r Edward Thurston Jr	Rev.d Morgan Edwards	" Joseph Harris Esq.re
M.r Thomas Eyres	Rev.d Isaac Eaton	" Francis Willet Esq.re
M.r Thomas Haszard	Rev.d Sam.l Stillman	William Logan Esq.re
M.r Peleg Barker	Rev.d Sam.l Jones	" Daniel Jencks Esq.re
		George Hazard Esq.re
		~~M.r~~ Nicholas Brown Esq.re
		" Jeremiah Niles Esq.re

or ſuch or so many of them as ſhall within twelve Months from the date hereof, accept of this trust and qualify themſelves as herein after directed, and their Succeſsors ſhall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Truſtees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Truſtees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguiſhed Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Inſtruments and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it ſhall be for ever known and distinguiſhed, and that by the ſame Name, they and their Succeſsors chosen by themselves as hereafter preſcribed ſhall and may have perpetual Succeſsion, and ſhall & may be Perſons able and capable in the Law to Sue, & to be Sued to Plead and

to be impleaded to Anſwer, and to be Answered unto, to defend and to be defended in all and singular Suits Cauſes Matters Actions and Doings of what kind soever & also to have take poſſeſs purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and ſhall stand and be seized notwithstanding any Miſnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the ſame ſhall be described in Gift, Bequests and Aſsignments provided the true intent of the Aſsigner or Benefactor be evident. Also the ſame to grant demiſe alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uſes to which they ſhall be ſeized there of and full Liberty Power & Authority is hereby granted unto the said Truſtees & Fellows and their Succeſsors to found a College or Univerſity within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they ſhall from time to time become legally Seized as aforesaid to Endow the ſame and erect the neceſsary Buildings & Edefices thereof on such Place within this Colony as they ſhall think Convenient: And Generally to regulate Order & Govern the ſame Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Priviliges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s^{d} Trustees & fellows & their Succeſsors ſhall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Succeſsors and the ſame Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal ſhall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter ſhall continue to be the unalterable Conſtitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowſhip with distinct ſeperate & respective powers, and that the Number of the Trustees ſhall and may be thirty ~~five~~ six of which twenty two ſhall forever be Elected of the Denomination called Baptists or Antipedobaptis Five ſhall for ever be elected of the Denomination called Friends or Quakers, four ſhall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five ſhall

for ever be elected of the Denomination called Episcopalians & that the Succeſsion in this Branch ſhall be for ever chosen & filled up from the respective Denominations in this proportion and according to these Numbers which are hereby fixt & ſhall remain to perpetuity imutably the ſame and that the said

Revd Iſaac Eaton	" Francis Willet Esqre	Hon'ble Stephen Hopkins Esqre
Revd Sam Stillman	" Daniel Jencks Esqre	Hon'ble Joseph Wanton Jun Esqre
Revd Ruſsel Maſon	George Haszard Esqre	~~Hon'ble John Gardner Esqre~~
Colo Elisha Reynolds	Nicholas Brown Esqre	Hon'ble Samuel Ward Esqre
Colo Josias Lyndon	" Jeremiah Niles Esqre	Hon'ble William Ellery Esqre
Colo Job Bennet	" ~~Mr~~ John G Wanton Esqre	" John Tillinghast Esqre
Mr Ephraim Bowen	" ~~Mr~~ Joshua Clark Esqre	" Simon Pease Esqre
John Taylor Esqre	" Revd Gardner Thurston	" James Honyman Esqre
Capt Jonn Slade	" Revd John Greaves	" Nicholas Easton Esqre
Mr Robert Strettell Jones	" Revd John Maxſon	" Nicholas Tillinghast Esqre
Azariah Dunham Esqre	" Revd John Gano	" Darius Sefsions Esqre
Mr Edward Thurston Junr	" Revd Saml Winſor	" Joseph Harris Esqre
Mr Peleg Barker		

or ſuch or so many of them as ſhall qualify themselves as aforesaid shall be and they are hereby declared and established the first and present Truſtees.— And that the Number of the Fellows inclusive of the President who ſhall always be a Fellow, ſhall and may be Twelve of which eight ſhall be for ever elected of the Denomination called Baptists or Antipadobaptists, and the rest indifferently of any or all Denominations and that the

Joshua Babcock Esq.	Revd Ezra Stiles	Rev. Edward Upham
Mr Thomas Eyres	Revd Saml Jones	Rev. Jeremiah Condy
Mr Thomas Haſzard	Revd James Manning	Rev. Marmaduke Brown
	~~Honble~~ Wm Logan Esqre	Rev. Morgan Edwards

or ſuch or so many of them as ſhall qualify themselves as aforesaid. ſhall be, and they are hereby declared the first and present Fellows and Fellowship to whom the President when hereafter elected who shall forever be of the Denomination called Baptist or Antepedo Baptist ſhall be Joined to compleat the Number. And furthermore it is declared and ordained that the Succeſsion in both Branches ſhall at all times hereafter be filled up and ſupplied according to these Numbers and this established and invariable Proportion from the respective Denominations by the ſeperate Election of both Branches

of this Corporation which ſhall at all Times ſitt and Act by seperate and distinct Powers, and in general in order to the validity and conſummation of all Acts there ſhall be in the Exerciſe of their respective ſeperate and distinct Powers, the Joint concurrence of the Truſtees and the Fellows by their respective Majorities except in adjudging and conferring the Academical Degrees which ſhall for ever belong exclusively to the Fellowship as a Learned Faculty And further it is conſtituted that the Inſtruction and immediate Government of the College ſhall for ever be and Rest in the President and Fellows or Fellowship—And furthermore it is ordained that there ſhall be a General Meeting of the Corporation on the first Wednesday of September Annually within the College Edifice, and untill the ſame be Buiit at ſuch Place as they ſhall appoint to conſult Advise and transact the Affairs of the College or University at which or at any other time the Public Commencement may be held and Celebrated and that on any special Emergencies the President with any two of the Fellows or any Three of the Fellows exclusive of the Preſident may convoke and they are hereby empowered to convoke an Aſsembly of the Corporation on twenty Days Notice and that in all Meetings the Major Vote of those Present of the two Branches respectively ſhall be deemed their respective Majorities aforesaid, provided that not leſs than twelve of the Trustees & five of the Fellows be a Quorum of their Respective Branches—That the President or in his Absence the Senior Fellow present ſhall always be Moderator of the Fellows, that the Corporation at their Annual Meetings once in three Years or oftner in Case of Death or Removal ſhall and may chose a Chancellor of the Univerſity and Treaſurer from among the Truſtees, and a Secretary from among the Fellows, that the Nomination of the Chancellor ſhall be in the Trustees whose Office ſhall be only to Preside as a Moderator of the Truſtees and that in his Abſence the Truſtees ſhall choose a Moderator for the time being by the Name of Vice Chancellor and at any of their Meetings duly formed as aforesaid ſhall and may be elected a Truſtee or Fellow, or Truſtees or Fellows in the Room of those Nominated in this Charter who may refuse to accept or in the Room of those who may Die, Resign or be Removed— And furthermore it is enacted ordained and declared that this Corporation at any of their Meetings regularly convened as aforesaid ſhall and may Elect and appoint the President and Profeſsors of Languages and the

ſeveral Parts of Literature, and upon the demiſe of him or them or either of them their Reſignation or Removal from his or their Office for Miſdemeanor Incapacity or Unfaithfulneſs, for which he or they are hereby declared removeable by this Corporation others to Elect and Appoint in their Room and Stead, & at ſuch meeting upon the Nomination of the Fellows to Elect and Appoint Tutors Stewards Butlers and all ſuch other Officers usually appointed in Colleges or Univerſities as they ſhall find neceſsary and think fitt to appoint for the promoting Liberal Education and the well ordering the Affairs of this College and them or any of them at their diſcretion to remove and ſubſtitute others in their Places, and in case any President Trustee or Fellow ſhall ſee Cause to change his Religious Denomination the Corporation is hereby empowered to declare his or their Place or Places Vacant, and may proceed to fill up it or them accordingly as before directed otherwiſe each Truſtee and Fellow not an officer of Inſtruction ſhall continue in his Office, during Life or untill Reſignation and further in Case either of the Religious denominations ſhou'd decline taking a Part in this Catholic Comprehenſive and liberal Inſtitution the Truſtees and Fellows ſhall and may compleat their Number by electing from their Respective Denominations always preſerving their Reſpective Proportions, herein before prescribed and determined, and all Elections ſhall be by Ballot, or written Suffrage, and that a Quorum of four Trustees & three Fellows may transact any Buſineſs excepting placing the College Edifice, Election of Truſtees, President, Fellows and Profeſsors that is to ſay so that their Acts ſhall be of Force and Validity untill the next Annual Meeting and no longer———

And it is further Enacted and Ordained by the Authority aforesaid that each Truſtee and Fellow as well those Nominated in this Charter or all that ſhall hereafter be duly Elected ſhall previous to their acting in a corporate Capacity take the Engagement of Allegiance prescribed by the Law of this Colony to His Majesty King George the third, His Heirs and Rightful Succeſsors to the Crown of Great Britain which Engagement ſhall be Administered to the present Trustees and Fellows by the Governor or Deputy Governor of this Colony and to them from time to time hereafter Elected by their Respective Moderators who are hereby empowered to Administer the ſame———

And ſtill the more clearly to define and Aſcertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowſhip ſhall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publiſh all ſuch Laws Statutes Regulations and Ordinances with Penalties as to them ſhall ſeem meet for the ſucceſful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the ſame Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, ſhall be laid before the Truſtees, and with their Approbation ſhall be of Force and Validity but not otherwise, and further the Truſtees and Fellows at their Meetings aforesaid ſhall aſcertain the Salaries of the Respective Officers and Order the Monies aſseſsed on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or ſuch other Officer as they ſhall appoint to Collect the ſame, and the ſame with their Revenues and other College Estates in the Hands of the Treaſurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Liberal & Catholic Inſtitution ſhall never be admitted any Religious Tests but on the Contrary all the Members hereof ſhall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Profeſsors, Tutors and all other Officers the Preſident alone excepted ſhall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations ſhall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or Univerſity and ſhall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themſelves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching ſhall in general Respect the Sciences and that the Sectarian differences of opinions, ſhall not make any Part of the Public and Classical Inſtruction, altho' all Religious Controversies may be ſtudied freely examined and explained by the President Profeſsors and Tutors in a personal ſeperate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

of the College and furthermore for the honour & encouragement of Literature we conſtitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Succeſsors with full Power & Authority, and they are hereby Author-iz'd & impowered by their President & in his Abſence by the Senior Fellow or one of the Fellows appointed by themſelves at the Anniversary Commencements or at any other times and at all Times hereaſter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Univerſities in America ~~Europe & particularly in the University in Cambridge & Edinbourgh in Great Britain)~~ or any ſuch other Degrees of Literary Honor as they ſhall devise upon any and all ſuch Candidates and Perſons as the President and Fellows or Fellowſhip ſhall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who ſhall or may Iſsue Diplomas or Certificates of ſuch Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Profeſsors as Witneſses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the ſame may be amply endow'd and enfranchised with the ſame priviledges Dignities and Immunities, enjoy'd by the American Colleges and European Univerſities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Perſons and Families of the President and Profeſsors for the Time being lying and being within the Colony with the Perſons of the Tutors ~~Graduates~~ and Students during their Residence at the College ſhall be freed and exempted from all Taxes, ſerving on Juries and Menial Services, and that the Persons aforesaid ſhall be exempted from bearing Arms Impreſses and Military Services except in Case of an Invaſion And furthermore for eſtabliſhing the perpetuity of this Corporation and in caſe that at any time hereafter through oversight or otherwiſe through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

void: yet nevertheleſs the same shall not in any Courts of Law or by the Gen^{rl} Aſsembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succeſsion, which Corporation may at all times and forever hereafter proceed & continue to Act; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wiſe notwithstanding—and laſtly, We the Governor and Company aforesaid do for ourselves and our Succeſsors, forever hereby enact, Grant & confirm unto the said Truſtees and Fellows and to their Succeſsors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, reputed & adjudged in all caſes moſt favorably on the behalf and for the beſt benefit and behoof of the said Truſtees and Fellows and their Succeſsors so as most effectually to answer the valuable Ends of this uſefull Inſtitution——

In full Teſtimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registerd in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, uſe and exerciſe all the Powers, Franchiſes and Immunities herein contained—

March 2^{d} 1764

To the Houſe of Mag^{sts}

Gen^{l} Resolvd that the aforewritten Paſs as an Act of this Aſsembly

Noted & paſsd Nemine Contradicente
& ordrd Josias Lyndon Clerk

In the Upper House
Read on the Third and concurred Nemine Contradicente
By Ord. Henry Ward Secr'y

NOTE.—The above is in all respects an exact reproduction of the original Copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

On September 4, 1782, the Corporation omitted from the engagement to be taken by new members the acknowledgment of allegiance to the British Crown, at the same time ordering broken the old seal of the College, which contained the busts of the king and queen of Great Britain. The present seal, of which this volume bears the imprint, was adopted on September 3, 1834.

In the spring of 1764, Rev. James Manning, a recent graduate of the College of New Jersey, opened a Latin School at Warren, Rhode Island, as a step preparatory to the work of college instruction. In September, 1765, he was formally appointed by the Corporation "President of the College, Professor of Languages and other branches of learning, with full power to act in these capacities at Warren or elsewhere." The first Commencement was held at Warren, in September, 1769. In the spring of 1770 the College was moved to Providence. The corner-stone of the first building, still standing as the venerable University Hall, was laid on the fourteenth of May, in that year. During the Revolutionary War college studies were suspended, and the building was used by the American and French forces for barracks and a hospital. At its meeting on Thursday, September 6, 1804, in view of distinguished beneficence to the College on the part of Mr. Nicholas Brown, the Corporation, under the power conveyed by the charter to change the title, voted, "That this College be known in all future time by the name of BROWN UNIVERSITY in Providence, in the State of Rhode Island and Providence Plantations."

In 1863, the General Assembly of the State of Rhode Island passed an Act, subject to the consent of the Corporation which was at once cordially given, limiting the exemption from taxation of the estates, persons and families of the President and Professors to the "amount of ten thousand dollars for each of such officers, his estates, person and family included."

CONDITIONS OF ADMISSION TO COLLEGE

The regular examinations for admission to the FRESHMAN CLASS take place on Thursday, Friday, and Saturday of Commencement week, June 23, 24, 25, 1892, beginning at 8 o'clock A. M. on Thursday. *Candidates must be in attendance during the three days.*

These examinations occur in the South Room of Rhode Island Hall, *where all the candidates are to assemble on Thursday, at 8 A. M., to be registered.*

The order of the examinations will be:

THURSDAY, JUNE 23.

Greek, from 9 A. M. to 12.30 P. M.
Latin, from 2.30 to 6 P. M.

FRIDAY, JUNE 24.

Mathematics, from 8.15 A. M. to 12.30 P. M.
French, from 3 to 5 P. M.

SATURDAY, JUNE 25.

English, from 9 to 11 A. M.

There will be, as follows, a second examination in each of the above branches, on Monday and Tuesday, September 19 and 20, 1892. *Applicants must be in attendance on both days.*

MONDAY, SEPTEMBER 19.

French, North Room, R. I. Hall, from 9 to 11 A. M.
English, South Room, R. I. Hall, from 11.30 A. M. to 1 P. M.
Mathematics, North Room, R. I. Hall, from 2 to 6 P. M.

TUESDAY, SEPTEMBER 20.

Latin, North Room, R. I. Hall, from 8 to 10.30 A. M.
Greek, South Room, R. I. Hall, from 11 A. M. to 1.30 P. M.

For admission to ADVANCED STANDING, candidates must be examined in the studies already pursued by the respective classes which they propose to enter. These examinations will be held in Rhode Island Hall, also on Monday and Tuesday, September 19 and 20.

No student can be admitted as a candidate for matriculation unless he brings suitable testimonials of a good moral character. If from another college, he must also present a certificate of his standing in the college which he has left, and of regular dismission from it.

Examinations for admission to the Freshman class will also be held on June 18, 19 and 20, in Chicago, Cincinnati and Philadelphia. If desired, examinations will be appointed in other cities remote from Providence. Correspondence on this subject should be addressed to the President of the University.

Pupils from schools of known excellence are admitted to the Freshman class without examination, on the certificates [not diplomas] of the Principals of these schools. For these certificates, upon application by the heads of the schools from which pupils are received in this manner, the University furnishes blank forms.

Members of the Freshman class are matriculated at the beginning of the second term, till which time all of them, however admitted, are regarded as on probation.

For the Courses for the Degree of Bachelor of Arts

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

I, Greek. 1 Greek Grammar. 2 The whole of Xenophon's Anabasis, or four books of the Anabasis and three books of Homer. 3 The first twenty exercises of Arnold's Greek Prose Composition, or the first twenty-five exercises of Jones's Greek Prose Composition. 4 The general history of Greece to the death of Alexander.

NOTE — In place of the examination in four books of the Anabasis and three of Homer, candidates may, at their option, substitute an examination in translating at sight passages of ordinary difficulty from the works of Xenophon and from Homer. Candidates thus examined will be supplied with a vocabulary of the less usual words.

II, Latin. 1 Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline, with questions on the subject-matter and on grammar. 2 Ovid, twenty-five hundred lines. 3 Cicero, the Orations against Cati-

line, and the Oration for Archias, with questions, as on Caesar. 4 Vergil, Aeneid, books i-vi, or Aeneid, books i-v, and the Eclogues, with questions on the subject-matter and on prosody. 5 Translation, at sight, of ordinary passages from Caesar, Cicero's Orations, Vergil's Aeneid and Ovid's Metamorphoses, with questions on grammar, prosody, history, and antiquities, suggested by the passages assigned. 6 Translation into Latin of simple English sentences. 7 Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8 Outlines of Roman Geography, and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, it is recommended that *ā* be pronounced as in *father*, *ă* as the *a* in *Cubă*; *ē* as in *prey*, *ĕ* as in *men*; *ī* as in *machine*; *ĭ* as in *cigar*; *ō* as in *old*, *ŏ* as in *not*; *ū* as in *rule*, *ŭ* as in *put*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as *g* in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

III, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

IV, English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation and spelling.

In 1892 the subject will be taken from one of the following works:

Shakspere's Julius Caesar and As You Like It, Scott's Marmion, Longfellow's Courtship of Miles Standish, Addison's Sir Roger de Coverley Papers, Macaulay's second Essay on the Earl of Chatham, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Talisman, George Eliot's Scenes from Clerical Life, Hawthorne's House of the Seven Gables.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction.

In 1893 the list will be, Shakspere's Julius Caesar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens's David Copperfield.

In 1894, Shakspere's Julius Caesar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens's David Copperfield.

In 1895, Shakspere's Merchant of Venice and Twelfth Night, Milton's L'Allegro, Il Penseroso, Comus and Lycidas, Longfellow's Evangeline, The Sir Roger de Coverly Papers, Macaulay's Essay on Milton and on Addison, Webster's First Bunker Hill Oration, Irving's Sketch Book, and Scott's Abbot.

V, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular and of the more usual irregular verbs, such as *dire, faire* and the classes represented by *ouvrir, sentir, venir, paraître, conduire* and *craindre.*

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work necessarily depends. Mastery of Professor Whitney's French Grammar will be regarded as sufficient.

2 Ability to translate simple prose at sight.

It is believed that the requisite facility can be acquired by reading concurrently with the work of the grammar from two hundred to four hundred duodecimo pages out of at least three dissimilar works, but care should be taken not to read works assigned in the college courses.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent reading of the French works used in the class-room.

In place of the above requirements in French, the following may be offered:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified; of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

See note under French 1. Mastery of Professor Whitney's brief German Grammar will be regarded as sufficient.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less used words being furnished.

It is believed that the requisite facility can be acquired by reading concurrently with the work in the grammar, from one hundred to two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems, but care should be taken not to read the works assigned in the college courses.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent reading of the German works used in the class-room.

Preliminary Examinations

In the Preparatory studies named below, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. These examinations will occur for 1892, on Thursday June 23, *and then only*. They will be held in the *South Room of Rhode Island Hall*, and in the following order:

Greek, from 9 A. M. to 12.30 P. M.
Latin, from 2.30 to 5.30 P. M.

The subjects will be:

I, In Greek

1 Greek Grammar.
2 Three books of Xenophon's Anabasis.

II, In Latin

1 Latin Grammar.
2 Caesar, or Caesar and Sallust, as on page 31.
3 Translation into Latin of simple sentences.
4 Ovid, or Cicero, or Vergil, as on pages 31, 32.

For the Courses for the Degree of Bachelor of Philosophy

Courses of instruction for this degree, as for that of Bachelor of Arts, embrace four years. Here certain studies are elective from the beginning, offering to candidates two main courses, one including classical studies, the other omitting these and presenting a larger number of mathematical and scientific studies. Both courses are susceptible of ample variation through election.

Candidates for admission to a course including *Greek* are examined in all the Greek subjects specified on page 31. They are also examined in all the subjects, except the Latin, in the list below.

Candidates for admission to a course including *Latin* are examined in all the Latin subjects specified on pages 31 and 32. They are also examined in all the subjects, except the Latin, in the list below.

Candidates for admission to a course *omitting* classical studies are examined in the following subjects:

I, Latin. *Five* books of Caesar, or its equivalent in Cicero or in Vergil.

II, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

III, English. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation and spelling.

In 1892 the subject will be taken from one of the following works:

Shakspere's Julius Caesar and As You Like It, Scott's Marmion, Longfellow's Courtship of Miles Standish, Addison's Sir Roger de Coverley Papers, Macaulay's second Essay on the Earl of Chatham, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Talisman, George Eliot's Scenes from Clerical Life, Hawthorne's House of the Seven Gables.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction.

For the subjects for 1893, 1894, and 1895, see pages 32 and 33.

IV, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular, and of the more usual irregular verbs, such as *dire, faire* and the classes represented by *ouvrir, sentir, venir, paraître, conduire,* and *craindre.*

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

The following course will be accepted instead either of the French or of the Latin required of candidates for the Degree of Bachelor of Philosophy:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less used words being furnished.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

For further remarks on the requirements in French and German, see pages 33 and 34.

For the Course for the Degree of Bachelor of Science

The course of study leading to the degree of Bachelor of Science is intended for those who have carried their preparatory studies in Mathematics and Modern Languages farther than candidates for the degree of Bachelor of Arts have done, and who wish in College to make a specialty of Mathematics and the Natural Sciences. The requirements for admission to this course are:

I, Mathematics. 1 Algebra and Plane Geometry, as for the degree of Bachelor of Arts [see page 32]. 2 Solid and Spherical Geometry. 3 Plane Trigonometry, with the use of logarithmic and trigonometric tables.

II, English Composition. As for the degree of Bachelor of Arts [see pages 32, 33].

III, Languages. Any two of the following three:

1 *French*,
2 *German*,
3 *Latin*.

} As for the degree of Bachelor of Philosophy [see pages 31, 32, 33, 34].

IV, History. 1 The general history of Greece to the death of Alexander. 2 Roman history to the end of the reign of Marcus Aurelius.

For the Course for the Degree of Civil Engineer

The course of study leading to the degree of Civil Engineer is intended for those who, not having studied the Classics, have carried their studies in Mathematics and Modern Languages as far as candidates for the degree of Bachelor of Arts or Bachelor of Science have done, and who wish in College to pursue subjects relating to Mathematics and Engineering. The requirements for admission to this course are:

I, Mathematics. 1 Algebra and Plane Geometry, as for the degree of Bachelor of Arts [see page 32].

II, English Composition. As for the degree of Bachelor of Arts [see pages 32, 33].

III, French. As for the degree of Bachelor of Arts [see page 33].

IV, History. As for the degree of Bachelor of Science [see page 36].

SELECT COURSES

A student may pursue a select course without becoming a candidate for a degree. Each course of this kind must have the approval of the Faculty, and, except in special cases, requires attendance in the classroom of at least sixteen hours per week. The candidate must be familiar with the subjects preliminary to the studies which he proposes to pursue.

NOTE: For information upon entrance examinations for women, see Index.

THE COURSES OF INSTRUCTION*

The courses of instruction for undergraduates form a system of studies partly required and partly elective. The studies of the Freshman year are nearly all required, the main exception being that candidates for the degree of Bachelor of Philosophy have a choice of courses according as they do or do not wish to pursue the study of an ancient language. The required studies of the Freshman year are selected for their disciplinary value, that the student may the more profitably pursue those, whatever they may be, of the subsequent years. During the last three years arge liberty in the choice of studies is allowed, particularly in the case of candidates for the degrees of Bachelor of Arts and Bachelor of Philosophy. In the Sophomore and Junior years of the courses for those degrees the required studies occupy seven of the sixteen hours of instruction each week, and in the Senior year three of the fourteen hours. The required studies for these degrees during these years are restricted to English, German, History, and Philosophy, the pursuit of which is deemed necessary for every student who is to receive a collegiate degree. Candidates for the degrees of Bachelor of Science and Civil Engineer are allowed less freedom of election, in order that they may thoroughly master the branches necessary for the most thorough discipline in their respective departments.

* Instruction for graduate students is treated by itself in a later paragraph. Also, a special circular relating to the same may be had on application to the Registrar.

The elective studies, which are very numerous, are so placed in the curriculum as to give all those entitled to this all the freedom of choice which the necessary limitations of the schedule of lectures admits. In arranging this schedule a number of parallel courses, each unitary and progressive and extending through the three years, are made available. Every student is advised in selecting his studies to adopt in the main one of these courses.

In addition to the regular courses of instruction, special honor courses are offered, which are open to students willing to do large extra work in their particular departments. These honor courses, fully described in a later paragraph, mainly consist of special reading supplemented by problems and essays. Examinations in them are held at the option of the several professors.

THE COURSES OF INSTRUCTION

ARRANGED ACCORDING TO YEARS AND TERMS

Required Courses

Freshman Year

For candidates for the degree of Bachelor of Arts

First Term	*Second Term*	*Third Term*
Greek, 1.*	Greek, 2.	Greek, 3.
Latin, 1.	Latin, 2.	Latin, 3.
French, 1 or 4.	French, 2 or 5.	French, 3 or 6.
Mathematics, 1.	Mathematics, 2.	Mathematics, 3.
General Lecture.	Rhetoric, 1.	Physiology, 1.

For candidates for the degrees of Bachelor of Philosophy, Bachelor of Science, and Civil Engineer

Mathematics, 1.	Mathematics, 2.	Mathematics, 3.
French, 1 or 4,	French, 2 or 5,	French, 3 or 6,
or	or	or
German, 1 or 4.	German, 2 or 5.	German, 3 or 6.
Drawing, 2.	Drawing, 3.	Drawing, 4.
General Lecture.	Rhetoric, 1.	Physiology, 1.

Candidates for the degree of Bachelor of Philosophy must also take two of the following:

1. Latin, 1.	Latin, 2.	Latin, 3.
2. Greek, 1.	Greek, 2.	Greek, 3.
3. French, 1 or 4,	French, 2 or 5,	French, 3 or 6,
or	or	or
German, 1 or 4.	German, 2 or 5.	German, 3 or 6.
4. Botany, 1.	Botany, 2.	Botany, 3.
5. Drawing, 1.	Drawing, 5.	Drawing, 6.

Candidates for the degrees of Bachelor of Science and Civil Engineer must, in addition to the required work, take number 5 above, Drawing, and also either number 3 or number 4.

*The numbers refer to the Courses of Instruction as arranged on the following pages according to Departments.

Candidates for the degree of Bachelor of Science, instead of Mathematics 1, 2, 3 in Freshman year, take, First Term, Mathematics 4, 5, 9; Second Term Mathematics 6, 10; Third Term Mathematics 7, 12.

Sophomore Year

For Candidates for the Degrees of Bachelor of Arts and Bachelor of Philosophy:

First Term	*Second Term*	*Third Term*
Rhetoric, 2.	Rhetoric, 3.	Rhetoric, 4.
Elocution, 1.	Elocution, 2.	Elocution, 3.
German, 1.	German, 2.	German, 3.

For Candidates for the Degree of Bachelor of Science:

Rhetoric, 2.	Rhetoric, 3.	Rhetoric, 4.
Elocution, 1.	Elocution, 2.	Elocution, 3.
German, 1.	German, 2.	German, 3.
Mechanics, 1.	Mechanics, 2.	Physics, 1.
Chemistry, 1.	Chemistry, 2.	Chemistry, 3.

And one of the following:

Mathematics, 13.	Mathematics, 8.	Mathematics, 11.
Surveying, 1.	Surveying, 2.	Surveying, 3.
French, 7.	French, 8.	French, 9.
German, 4.	German, 5.	German, 6.
Botany, 1.	Botany, 2.	Botany, 3.

For Candidates for the Degree of Civil Engineer:

Rhetoric, 2.	Rhetoric, 3.	Rhetoric, 4.
Elocution, 1.	Elocution, 2.	Elocution, 3.
Surveying, 1.	Surveying, 2.	Surveying, 3.
Mathematics, 9.	Mathematics, 10.	Mathematics, 12.
Mechanics, 1.	Mechanics, 2.	Mechanics, 5.
Chemistry, 1.	Chemistry, 2.	Physics, 1.

JUNIOR YEAR

For Candidates for the Degrees of Bachelor of Arts and Bachelor of Philosophy:

First Term	*Second Term*	*Third Term*
English, 1.	English, 2.	English, 3.
Essays and Orations.	Essays and Orations.	Essays and Orations.
History, 1.	History, 2.	Philosophy, 2.
	Philosophy, 1.	

Candidates for the Degree of Bachelor of Science must take, besides the above, three of the following:

Mathematics, 14.	Mathematics, 15.	Mathematics, 16.
Mechanics, 3.	Mechanics, 4.	Mechanics, 5.
Surveying, 1.	Surveying, 2.	Surveying, 3.
Astronomy, 1.	Astronomy, 3.	Astronomy, 4.
Chemistry, 4.	Chemistry, 5.	Chemistry, 6.
Physics, 9.	Physics, 10.	Physics, 11.
Botany, 1.	Botany, 2.	Botany, 3.
Spanish, 1 or Italian, 1.	Spanish, 2 or Italian, 2.	Spanish, 3 or Italian, 3.
History, 4.	History, 5.	History, 6.

Candidates for the Degree of Civil Engineer take in Junior Year the following studies:

Railroad and Highway Engineering.	Railroad and Highway Engineering.	Railroad and Highway Engineering.
Mathematics, 13.	Advanced Surveying.	Advanced Surveying.
Astronomy, 1.	Astronomy, 3.	Astronomy, 4.
English, 1.	English, 2.	English, 3.
History, 1.	History, 2.	Philosophy, 2.
	Philosophy, 1.	

And also one of the following:

French, 7 or 4.	French, 8 or 5.	French, 9 or 6.
German, 4 or 1.	German, 5 or 2.	German, 6 or 3.
Spanish, 1 or Italian, 1.	Spanish, 2 or Italian, 2.	Spanish, 3 or Italian, 3.
Physics, 1.	Physics, 2.	Physics, 7.
Political Economy, 1.	Political Economy, 2.	Political Economy, 3.
Botany, 1.	Botany, 2.	Botany, 3.

Senior Year

Required of all candidates for a degree:

First Term	*Second Term*	*Third Term*
Philosophy, 5.	Philosophy, 6.	Philosophy, 7.

Candidates for the Degree of Bachelor of Science also take four of the following:

Philosophy, 8.	Philosophy, 9.	Philosophy, 10.
English, 4.	English, 5.	English, 6.
History, 4 or 7.	History, 5 or 8.	History, 6 or 9.
Political Science, 1.	Political Science, 2.	Political Science, 3.
Political Economy, 1.	Political Economy, 2.	Political Economy, 3.
Mathematics, 14.	Mathematics, 15.	Mathematics, 16.
Mechanics, 3.	Mechanics, 4.	Mechanics, 5.
Surveying, 1.	Surveying, 2.	Surveying, 3.
Zoölogy, 3.	Zoölogy, 4.	Anthropology, 1.
Geology, 1.	Geology, 2.	Meteorology, 1.
Italian 1 or Spanish 1.	Italian 2 or Spanish 2.	Italian 3 or Spanish 3.

Candidates for the Degree of Civil Engineer take, besides Philosophy, the following:

Geodesy.	Geodesy and Map Projection.	Thesis Work.
Bridge Design.	Bridge Design.	Bridge Design.
Mechanics, 3.	Mechanics, 4.	Stereotomy.

Elective Courses

First Term

Philosophy 3 Sr.
" 8 Sr.
" 11 Sr.
" 14 Gr.
Greek 4 So.
" 7 Jr. Sr.
Latin 4 So.
" 7 Jr. Sr.
Roman Antiquities Jr. Sr. Gr.
Classical Archaeology 1 Jr. Sr.
Classical Archaeology 2 Gr.
Classical Philology 1 Jr. Sr.
Classical Philology 4 Jr. Sr.
Classical Philology 7 Gr.
Sanskrit 1 Jr. Sr.
Hebrew 1 Jr. Sr.
" 4 Jr. Sr.
Arabic 1 Jr. Sr.
Assyrian 1 Jr. Sr.
Oriental History 1 Jr. Sr.

Rhetoric 5 Jr. Sr.
English 4 Sr.
" 12 Jr. Sr.
History 4 Jr. Sr.
" 7 Jr. Sr.
" 10 Gr.
Political Science 1 Jr. Sr.
Social Science 1 Jr. Sr.
Political Economy 1 Jr. Sr.
German 4 Jr. Sr.
" 7 Sr.
" 10 Sr. Gr.
" 13 Gr.
French 7 So.
" 10 Jr.
" 13 So. Jr. Sr.
" 16 Gr.
" 19 Gr.
Italian 1 So. Jr. Sr.
" 4 Gr.
Spanish 1 So. Jr. Sr.
Mathematics 9 So. Jr. Sr.

Mathematics 10 a Jr.
Mathematics 13 Jr. Sr.
Mathematics 14 Sr.
Mechanics 1 So. Jr. Sr.
Mechanics 3 Jr. Sr.
Drawing 1 So. Jr. Sr.
" 2 So. Jr. Sr.
" 7 So. Jr. Sr.
Surveying 1 So. Jr. Sr.
Chemistry 1 So.
" 4 Jr.
" 7 Sr.
" 10 Sr.
Physics 1 So. Jr.
" 4 Jr. Sr.
" 6 So. Jr. Sr.
" 9 Jr. Sr.
Astronomy 1 Jr. Sr.
Zoölogy 3 Sr.
Geology 1 Sr.
Physiology 2 Jr.
Botany 1 So.
" 4 So. Jr. Sr.

* 'So.' means that the study opposite which it is placed is open to election by all members of the Sophomore Class. In the same way 'Jr.' refers to the Junior Class, 'Sr.' to the Senior, and 'Gr.' to Graduates. In selecting the studies for any particular term the student is advised to note carefully the courses of subsequent terms, in order to pursue the courses which he elects according to an orderly and progressive plan. It is usually far better to pursue a series of related subjects continuously rather than to remit them for others for a time and then resume. Further, when a study is open to students of several years, it is not intended that those of the first year named should consider themselves obliged or expected to take it in that year.

Second Term

Philosophy 4 Sr.
" 9 Sr.
" 12 Sr.
" 14 Gr.
Greek 5 So.
" 8 Jr. Sr.
Latin 5 So.
" 8 Jr. Sr.
Classical Archaeology 2 Gr.
Classical Philology 2 Jr. Sr.
Classical Philology 5 Jr. Sr.
Classical Philology 7 Gr.
Roman Antiquities So. Jr. Sr. Gr.
Sanskrit 1 Jr. Sr.
Hebrew 2 Jr. Sr.
Aramaic 1 Jr. Sr.
Arabic 2 Jr. Sr.
Assyrian 2 Jr. Sr.
Oriental History 2 Jr. Sr.
Rhetoric 6 Jr. Sr.
English 5 Sr.
" 7 Jr. Sr.
English 10 So. Jr. Sr.
" 13 Jr. Sr.
History 5 Jr. Sr.
" 8 Jr. Sr.
" 10 Gr.
Political Science 2 Jr. Sr.
Social Science 2 Jr. Sr.
Political Economy 2 Jr. Sr.
Political Economy 4 Jr. Sr.
German 5 Jr. Sr.
" 8 Sr.
" 11 Sr. Gr.
" 14 Gr.
French 8 So.
" 11 Jr.
" 14 So. Jr. Sr.
" 17 Gr.
" 20 Gr.
Italian 2 So. Jr. Sr.
" 5 Gr.
Spanish 2 So. Jr. Sr.
Mathematics 8 So. Jr. Sr.
Mathematics 10 So. Jr. Sr.
Mathematics 12 a Jr. Sr.
Mathematics 15 Sr.
Mechanics 2 So. Jr. Sr.
Mechanics 4 Jr. Sr.
Drawing 3 So. Jr. Sr.
" 5 So. Jr. Sr.
" 8 So. Jr. Sr.
Surveying 2 So. Jr. Sr.
Chemistry 2 So.
" 5 Jr.
" 8 Sr.
" 11 Sr.
" 13 Sr.
" 15 Sr.
" 17 Sr.
Physics 2 So. Jr.
" 7 So. Jr. Sr.
" 10 Jr. Sr.
Astronomy 2 Jr. Sr.
" 3 Jr. Sr.
Zoölogy 1 Jr. Sr.
" 4 Sr.
Geology 2 Sr.
Physiology 3 Jr.
Botany 2 So.
" 5 So. Jr. Sr.

Third Term

Philosophy 10 Sr.
" 13 Sr.
" 14 Gr.
Greek 6 So.
" 9 Jr. Sr.
" 10 Gr.
Latin 6 So.
" 9 Jr. Sr.
Roman Antiquities Jr. Sr. Gr.
Classical Archaeology 2 Gr.
Classical Philology 3 Jr. Sr.
Classical Philology 6 Jr. Sr.
Classical Philology 7 Gr.
Sanskrit 1 Jr. Sr.
Hebrew 3 Jr. Sr.
Aramaic 2 Jr. Sr.
Arabic 3 Jr. Sr.
Assyrian 3 Jr. Sr.
Oriental History 3 Jr. Sr.
Rhetoric 7 Jr. Sr.
English 6 Sr.
" 8 Jr. Sr.
" 11 So. Jr. Sr.
History 3 Jr. Sr.
" 6 Jr. Sr.
" 9 Sr.
History 10 Gr.
Political Science 3 Jr. Sr.
Political Science 4 Sr.
Social Science 3 Jr. Sr.
Political Economy 3 Jr. Sr.
Political Economy 5 Jr. Sr.
Political Economy 6 Jr. Sr.
German 6 Jr. Sr.
" 9 Sr.
" 12 Sr. Gr.
" 15 Gr.
French 9 So.
" 12 Jr.
" 15 So. Jr. Sr.
" 18 Gr.
" 21 Gr.
Italian 3 So. Jr. Sr.
" 6 Gr.
Spanish 3 So. Jr. Sr.
Mathematics 11 So. Jr. Sr.
Mathematics 12 So. Jr. Sr.
Mathematics 13 a Jr. Sr.
Mathematics 16 Sr.
Mechanics 5 So. Jr. Sr.
Drawing 4 So. Jr. Sr.
Drawing 6 So. Jr. Sr.
Drawing 9 So. Jr. Sr.
Surveying 3 So. Jr. Sr.
Chemistry 3 So.
" 6 Jr.
" 9 Sr.
" 12 Sr.
" 14 Sr.
" 16 Sr.
" 18 Sr.
" 20 Sr.
Physics 3 So. Jr.
" 4 Jr. Sr.
" 5 Jr. Sr.
" 8 So. Jr. Sr.
" 11 Jr. Sr.
Astronomy 4 Jr. Sr.
Meteorology 1 Jr. Sr.
Zoölogy 2 Jr. Sr.
Anthropology 1 Sr.
Botany 3 So.
" 6 So. Jr. Sr.

II, The Courses of Instruction Arranged According to Departments

In the following pages the studies are arranged by departments, in order to show the courses available to the student in each subject. The Honor Courses presented are special courses of reading assigned to students wishing to do extra work. As such assignments vary with individual students, the Honor Courses named are to be regarded simply as specimens.

I, PHILOSOPHY

PRESIDENT ANDREWS AND PROFESSOR DELABARRE

1, *Logic.* Two hours. Second Term. Required of all Juniors.

PROFESSOR DELABARRE

2, *Psychology.* General Synthetic Course. Five hours. Third Term. Required of all Juniors.

PROFESSOR DELABARRE

3, *Psychology.* Laboratory Course. Experiments in all the main lines of psychological research, with original experiments in one or more subjects, varying from year to year. Three hours. Elective for Seniors. First Term.

PROFESSOR DELABARRE

4, *Psychology.* Advanced Course in Special Problems. Three hours. Second Term. Elective for Seniors who have passed in Course 3.

PROFESSOR DELABARRE

5, *Theory of Ethics.* Three hours. First Term. Required of all Seniors.

THE PRESIDENT

6, *Practical Ethics.* Three hours. Second Term. Required of all Seniors.

THE PRESIDENT

7, *Philosophy of Religion and Christian Evidences.* Three hours. Third Term. Required of all Seniors.

THE PRESIDENT

8, *History of Philosophy from Thales to Plotinus.* Three hours. First Term. Elective for Seniors.

9, *History of Mediaeval Philosophy.* Three hours. Second Term. Elective for Seniors who have passed in Course 8.

10, *History of Philosophy, Kant and Post-Kantian.* Three hours. Third Term. Elective for Seniors who have passed in Courses 8 and 9.

11, *Course in Authors. Ancient Philosophy.* Three hours. First Term. Elective for Seniors.

12, *Course in Authors. Mediaeval Philosophy.* Three hours. Second Term. Elective for Seniors who have passed in Course 8 or Course 11.

13, *Course in Authors. Modern Philosophy.* Three hours. Third Term. Elective for Seniors who have passed in any two of the Courses 8, 9, 10, 11 and 12.

14, *Advanced Course.* One hour. Through the year. Elective for graduate students.

Courses 11, 12 and 13 will be taught one year by President Andrews, the next by Professor Delabarre, and the authors read will vary from year to year. When one of the instructors has the Course in Authors, the other will teach the corresponding general course, 8, 9, or 10.

Course 14 deals one year with Metaphysics, the next with Advanced Logic and the History of Logic, the third with General Applied Logic and the Logic of Method.

Honor Courses

a, *In Psychology.* James's Psychology. Lotze's Psychology. Bowne's Psychology. Baldwin's Psychology. Hamilton's Lectures on Metaphysics. Mill's Examination of Hamilton. Mill's Logic.

b, *In Ethics.* Sidgwick's History of Ethics, also his Methods of Ethics. Martineau's Types of Ethical Theory. Spencer's Data of Ethics. Porter's Elements of Moral Science. Schurman's Ethical Import of Darwinism. Kant's Theory of Ethics. Bradley's Ethical Studies.

c, *In the History of Philosophy.* Schwegler's History of Philosophy. The entire Dialogues of Plato. DesCartes's Discourse on Method. Locke's Essay Concerning Human Understanding. Kant's Critique of Pure Reason. Seth's From Kant to Hegel.

d, *In the History and Philosophy of Religion.* LeConte's Evolution in its Relation to Religious Thought. Pfleiderer's Philosophy of Religion. Caird's Philosophy of Religion. Thiele's History of Religion, also his article "Religions" in the Encyclopædia Britannica. Caird's Faiths of the World. Rhys David's Origin and Development of Religious Belief. Schurman's Belief in God.

e, *In Logic.* (1) Historical: the logical work of Aristotle, of the Church Fathers, of the Mediaeval Logicians, and of Francis Bacon. References: Ueberweg's System of Logic, Blakey's Historical Sketch of Logic, and Prantl's *Geschichte der Logik im Abendlande.* (2) Philosophical: Either (a) Lotze's Logic, or (b) Hamilton's Logic, with special attention to Lectures IV, VII, XIII, XIV, XV, XXVI, XXVII-XXXI. Written abstracts of all important topics included in the above outline.

II, GREEK LITERATURE AND HISTORY

PROFESSORS A. HARKNESS, POLAND AND BENNETT, AND MR. GREENE

1, *Herodotus.* Greek History. Greek Composition. Reading at sight. Supplementary reading and other work. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR BENNETT

2, *Thucydides.* Greek History. Greek Composition. Reading at sight. Supplementary reading and other work. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR BENNETT AND MR. GREENE

3, *Homer.* The Iliad. The Homeric Question, and various other topics, historical and literary, suggested by this course of reading. Greek Composition. Reading at sight. Supplementary reading and other work. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR BENNETT

4, *Demosthenes.* The Public Orations. Reading at sight. Lectures on Athenian Oratory. Supplementary reading and other work. Three hours. First Term. Elective for Sophomores.

PROFESSOR A. HARKNESS

5, *Aeschylus.* Development of Greek Tragedy. Reading at sight. Supplementary reading and other work. Three hours. Second Term. Elective for Sophomores.

PROFESSOR BENNETT

6, *Sophocles.* Lectures on the History of Greek Tragedy, and on the Relation of the Drama to the Religion and Culture of the Greeks. Reading at sight. Supplementary reading and other work. Three hours. Third Term. Elective for Sophomores.

PROFESSOR A. HARKNESS

7, *Demosthenes.* The Oration on the Crown. Aeschines against Ctesiphon. Reading at sight. Lectures on Athenian Oratory and on Athens in the Age of Pericles. Supplementary reading and other work. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR A. HARKNESS

8, *Aristophanes.* Lectures on various topics connected with the study of this poet. Reading at sight. Supplementary reading and other work. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR BENNETT

9, *Plato.* The Gorgias. Lectures on the Life and Works of Plato, on the History of Classical Philology, and on the results of recent Linguistic Studies. Supplementary reading and other work. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR A. HARKNESS

10, *The Private Life of the Greeks*, with illustrations by means of the stereopticon. One hour. Second and Third Terms, commencing in 1892–'93. Elective primarily for graduate students.

PROFESSORS A. HARKNESS AND POLAND

Honor Courses

Students studying for honors in Greek are allowed a large option. The following courses may serve as illustrations of what is desired:

a, Homer, eight or ten books of the Iliad. Homeric Question. Gladstone's Homeric Studies. Demosthenes and Aeschines, one or more characteristic orations of each. History of Attic Oratory. Characteristics of the ten Attic Orators. Aeschylus, one or more tragedies. Aristophanes, the Clouds and the Acharnians. Historical Development of the Greek Drama. Plato, the Phaedo and one or more of the other Dialogues. Early History of Greek Philosophy. Studies in Greek Literature.

b, Herodotus, the Persian Wars. Aeschylus, the Persians. Selections from the other Dramatists. Thucydides, Peloponnesian War. Cox and Smith, General History of Greece. Grote, Curtius, and Thirlwall, History of Greece in the Fifth Century before Christ. Rawlinson's Herodotus.

c, Homer, eight or ten books of the Iliad. Studies in Greek Grammar and in Greek Etymology. Gustavus Meyer, *Griechische Grammatik.* Monro's Homeric Grammar. Karl Brugmann, (1) Comparative Grammar of the Indo-Germanic Languages, vol. 1; (2) *Griechische Grammatik. Handbuch der klassischen Altertumswissenschaft,* by Iwan Müller. Papillon, Comparative Philology. B. Delbrück, (1) *Der Gebrauch des Conjunctivs und Optativs im Sanskrit und Griechischen;* (2) *Ablative, Localis, Instrumentalis.* G. Curtius, (1) *Das Verbum der griechischen Sprache;* (2) *Grundzüge der griechischen Etymologie.* Selections from the Greek Orators. History of Greek Oratory.

III, ROMAN LITERATURE AND HISTORY

PROFESSOR A. G. HARKNESS AND MR. EVERETT

1, *Livy.* Early Roman History. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR A. G. HARKNESS AND MR. EVERETT

2, *Cicero.* Letters. Cicero and his times. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR A. G. HARKNESS AND MR. EVERETT

3, *Tacitus.* Germania and Agricola. History of the Early Empire. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR A. G. HARKNESS AND MR. EVERETT

4, *Horace.* Odes and Epodes. Ovid's Lyrics. Lectures on Lyric Poetry. Three hours. First Term. Elective for Sophomores.

PROFESSOR A. G. HARKNESS

5, *Catullus, Tibullus, and Propertius.* Lyric Poetry continued. Three hours. Second Term. Elective for Sophomores.

PROFESSOR A. G. HARKNESS

6, *The Satires of Horace and Juvenal.* Roman Life. Three hours. Third Term. Elective for Sophomores.

PROFESSOR A. G. HARKNESS

7, *The Origin of Latin Poetry and the Development of the Drama.* Readings from Plautus and Terence. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR A. G. HARKNESS

8, *The Poetry of the Republic continued and the Poetry of the Augustan Age.* Readings from Lucretius and other Authors of this period. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR A. G. HARKNESS

9, *The Poetry of the Silver Age.* Readings from Authors of the period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR A. G. HARKNESS

10, Private Life and Antiquities of Rome. Illustrated by the stereopticon. One hour. Through the year. Elective for Juniors, Seniors and graduates.

PROFESSOR A. G. HARKNESS

The object of Courses 7-9 is to give a connected idea of the development and history of Latin Poetry. These courses will alternate with corresponding courses on the history of Latin Prose.

Honor Courses

A wide range of choice is allowed students who read for honors. The following courses may serve as examples of what is recommended:

a, F. D. Allen, Remnants of Early Latin. Wordsworth, Fragments and Specimens of Early Latin. Plautus, Three or four plays. Cato, *de re rustica*. Selections from Quintilian, and from Aulus Gellius. Strong, Logeman, Wheeler, Introduction to the Study of Language. Brugmann, Comparative Grammar. Seelmann, *Die Aussprache des Latein*. Stolz und Schmalz, *Lateinische Grammatik*. Bréal et Bailly, *Dictionnaire étymologique Latine*. Vaniček, *Etymologisches Wörterbuch der lateinischen Sprache*.

b, Selections from the following: Plautus, Terence, Vergil's Georgics, Ovid's Elegies, Seneca's Tragedies, Martial. Histories of Roman Literature: Teuffel, Crutwell. Sellar, The Roman Poets. Moulton, The Ancient Classical Drama. Patin, *Études sur la Poésie Latine*. Ribbeck, *Geschichte der römischen Dichtung*.

c, Selections from Lucretius, from Cicero's Philosophical Writings, and from Seneca's Essays and Epistles. Mayor, History of Ancient Philosophy. Wallace, Epicureanism. Masson, The Atomic Theory of Lucretius. Capes, Stoicism. Zeller, The Stoics, Epicureans and Sceptics.

d, Selections from the following: Caesar, Livy, Tacitus, Suetonius, Curtius Histories of Rome: Mommsen's, Ihne's, Duruy's, Arnold's. Merivale, History of the Romans under the Empire Mommsen, Provinces of the Roman Empire. Arnold, Roman Provincial Administration. Sir G. C. Lewis, Credibility of the Early Roman History.

CLASSICAL ARCHAEOLOGY

PROFESSOR POLAND

1,* *General Course.* Collignon's Manual of Greek Archaeology, Wright's translation. Lectures, illustrated by plaster casts, photographs, engravings, etc., also collateral reading. Books of reference: Müller's Manual of the Archaeology of Art, Overbeck's *Schriftquellen*, Overbeck's *Geschichte der griechischen Plastik*, Brunn's *Geschichte der griechischen Künstler*, Friederichs's *Bausteine*,

* Instead of this course, usually given by Professor Poland, will be substituted for the academic year 1891-'92, the following by PROFESSOR BENNETT:

Private Antiquities of the Romans and Architectural Remains of the City of Rome. Lectures accompanied by lantern views. Two hours weekly through the winter term, with the option of a third hour. Elective for all students of suitable preparation.

Baumeister's *Denkmäler*, Perrot and Chipiez's History of Ancient Art, Mitchell's History of Ancient Sculpture, Murray's History of Greek Sculpture, Perry's Greek and Roman Sculpture, and other works on special subjects. Three hours. First Term. Elective for Juniors and Seniors.

2, *Advanced Course.* One hour. Through the year. Elective for graduate students.

IV, CLASSICAL PHILOLOGY AND SANSKRIT

PROFESSOR BENNETT

1, 2, 3, *Historical Greek Grammar.* Lectures on the history of the sounds, inflections and syntax of the Greek Language from the comparative point of view, accompanied by practical exercises in the study of the Greek dialects. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors. (Omitted in 1891–'92.)

4, 5, 6, *Historical Latin Grammar.* Lectures on the history of the sounds, inflections and syntax of the Latin Language, from the comparative point of view, accompanied by practical exercises in the study of inscriptions. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors. (Omitted in 1891–'92.)

7, *Seminary in Classical Philology.* The following courses will be offered in alternate years. (a) Text criticism of a classical author. (b) Special study of the Greek dialects. The work in both courses will be thrown as largely as possible into the hands of the students themselves, with the aim of cultivating independence and critical power. In conjunction with each course special subjects will be assigned for investigation, and regular meetings will be held for the discussion of topics suggested by current periodical literature. Two hours (at each meeting). Through the year. Elective for graduate students and, with the consent of the instructor, for undergraduates. (Omitted in 1891–'92.)

SANSKRIT

1, *Whitney's Sanskrit Grammar.* Selections from Lanman's Sanskrit Reader. Two hours. Through the year. Elective for Juniors, Seniors, and graduates. (Omitted in 1891–'92.)

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

PROFESSOR JEWETT

HEBREW

1, 2, 3, *Hebrew Accidence.* Harper's Introductory Hebrew Method and Manual, Harper's Elements of Hebrew, the Hebrew Bible. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

4, *Critical Study of the Book of Isaiah.* Three hours. First Term. Elective for Juniors and Seniors. (To be given in 1892–'93.)

ARAMAIC

1, *Classical Aramaic* (Syriac). Nöldeke's *Syrische Grammatik*, Roediger's *Chrestomathia Syriaca.* Three hours. Second Term. Elective for Juniors and Seniors. (To be given in 1892–'93.)

2, *Biblical Aramaic.* Brown's Aramaic Method. Three hours. Third Term. Elective for Juniors and Seniors. (To be given in 1892–'93.)

ARABIC

1, 2, 3, *Lansing's Arabic Manual.* Selected texts from one of the Beirût Chrestomathies. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

ASSYRIAN

1, 2, 3, *Lyon's Assyrian Manual.* Abel and Winckler's *Keilschrifttexte.* Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

ORIENTAL HISTORY

1, *From the earliest times to the birth of Mohammed.* Informal lectures and supplementary reading. Three hours. First Term. Elective for Juniors and Seniors.

2, *The Rise and Spread of Islâm.* Recitations, informal lectures and supplementary reading. Three hours. Second Term. Elective for Juniors and Seniors.

3, *History of the Crusades.* Recitations, informal lectures and supplementary reading. Three hours. Third Term. Elective for Juniors and Seniors.

The three courses in Oriental History may be taken independently of each other.

VI, RHETORIC AND ORATORY

PROFESSOR SEARS, MR. SNOW AND MR. COLVIN

1, *Elementary Rhetoric.* One hour. Second Term. Required of all Freshmen.

PROFESSOR SEARS

2, 3, 4, *Practical Rhetoric.* Three hours. First, Second, and Third Terms respectively. Required of all Sophomores.

PROFESSOR SEARS AND MR. COLVIN

5, 6, 7, *Historical Course.* One hour. First, Second, and Third Terms respectively. Elective for Juniors, Seniors, and graduate students.

PROFESSOR SEARS

8, *Elocution.* Lectures and Exercises, with Declamations. Murdock and Russell's Vocal Culture. Principal works of reference: Dr. Rush's The Philosophy of the Human Voice, Austin's Chironomia, Guttmann's Gymnastics of the Voice, Guttmann's Aesthetic Physical Culture, Hullah's The Speaking Voice, Cohen's Throat and Voice. One hour. Through the year. Required of all Sophomores.

MR. SNOW

9, *Orations.* One hour. Through the year. Required of all Juniors [five orations each].

MR. SNOW

Honor Courses

(1) Selected reading from Bain's English Composition and Rhetoric, Hill's Science of Rhetoric, or Genung's Practical Rhetoric. References to Campbell, Whately, and Blair. (2) Rhetorical Analysis and Criticism of Standard Authors, by means of assigned essays.

VII, ENGLISH LITERATURE AND LANGUAGE

PROFESSOR MANLY AND MR. SNOW

1, *Chaucer.* This is primarily a course in language work, but the poems read will also be treated as literature. Three hours. First Term. Required of Juniors.

PROFESSOR MANLY

2, *English Poets.* One hour. Second Term. Required of Juniors.

PROFESSOR MANLY.

3, *English Prose Writers.* One hour. Third Term. Required of Juniors.

PROFESSOR MANLY

In courses 2 and 3, representative poets and prose writers will be read, and the outlines of the development of English literature will be sketched.

Essays and Orations will be required of Juniors throughout the year in connection with courses 1, 2 and 3. One hour per week.

MR. SNOW

4, 5, 6, *Eighteenth Century Literature.* Three hours. First, Second and Third Terms respectively. Elective for Seniors.

PROFESSOR MANLY

In courses 4, 5 and 6, the principal writers of the Eighteenth Century will be read and criticized, and the main currents of thought studied as thoroughly as time permits. The objects of the courses are two: (1) To furnish some knowledge of a period of the utmost importance for the understanding of our own time; (2) to familiarize students with methods of research.

Instead of the work in Eighteenth Century Literature (courses 4, 5, 6,) Professor Manly intends to offer next year a course in Shakspere and the English Drama, which will include the study of the beginnings of the Drama in England, lectures on Shakspere's art and his place in the literature of his age, and the critical reading of five or six of his plays. Like the course in Eighteenth Century Literature, this course will occupy three hours a week through the year.

7, 8, *Shakspere.* Three hours. Second and Third Terms respectively. Elective for Juniors and Seniors.

MR. SNOW

Courses 7 and 8 will be similar to course 1 in Chaucer. Parts of Henry IV, Twelfth Night, Hamlet, Winter's Tale and Tempest will be critically examined, written exercises will be frequent, and passages will be assigned to be committed to memory.

Instead of this work in Shakspere, Mr. Snow will offer next year a course in Nineteenth Century Literature in England and America. The new course will run through the year.

10, 11, *Elementary Course in Anglo-Saxon*, intended to serve as a basis for the historical study of the English language. Three hours. Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors.

PROFESSOR MANLY

12, 13, *Anglo-Saxon Poetry.* Bēowulf, and, if time serves, another poem will be read, with attention to both language and subject matter. Three hours. First and Second Terms respectively. Elective for those who have taken courses 10 and 11.

PROFESSOR MANLY

For the advanced Course in Anglo-Saxon (12, 13,) an equal amount of work in Middle English will be substituted next year. Advanced Anglo-Saxon will thus alternate year by year with Middle English. Elementary Anglo-Saxon, which serves as an introduction to them both, will be given every year.

Instruction will be given in either Icelandic or Gothic whenever a class of three or more advanced students is formed.

Honor Courses

The courses for honors in English are as follows: one in connection with English 1, 2, 3; one with English 4, 5, 6; one with English 7, 8. The work in each case will consist of collateral reading.

VIII, HISTORY, POLITICAL AND SOCIAL SCIENCE

PROFESSORS JAMESON, MUNRO AND WILSON

HISTORY

1, *General Mediaeval History of Europe.* Recitations and lectures, reports by members of the class, and supplementary readings. Three hours. First Term. Required of all Juniors.

PROFESSOR MUNRO

2, *General Modern History of Europe.* Methods as indicated under Course 1. Three hours. Second Term. Required of all Juniors.

PROFESSOR MUNRO

3, *History of the Renaissance and Reformation.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR MUNRO

4, *English Constitutional and Political History to* 1625. Methods as indicated under Course 1. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

5, *English Constitutional and Political History since* 1625. Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

6, *History of Europe since* 1815. Methods as in Course 1. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

7, *Constitutional and Political History of the United States to* 1815. Methods as in Course 1. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

8, *Constitutional and Political History of the United States since* 1815. Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

9, *Practical Exercises in American History.* Methods, individual research, practice in the use of sources, instruction individually, occasional meetings as a class. Three hours. Third Term. Elective for those Seniors who have completed Courses 7 and 8.

PROFESSOR JAMESON

10, *Principles of Historical Criticism.* Lectures and exercises. One hour. Through the year. Elective for graduate students.

PROFESSOR JAMESON

POLITICAL SCIENCE

1, *The State.* Its origin, development, conditions, forms, end and functions. Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2, *The Comparative Study of Constitutions.* Especially those of Germany, France, England and the United States. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

3, *International Law and Relations.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

4, *Constitutions and Politics of the United States.* Lectures, recitations and essays. Three hours. Third Term. Elective for Seniors.

PROFESSOR JAMESON

SOCIAL SCIENCE

1, *The Principles of Sociology and the Development of Primitive Civilization.* Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2, *Modern Social Problems.* Charity, Penology, Criminology, History of Punishments, Marriage, Divorce. Lectures. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

3, *Modern Social Problems.* Temperance, Education, Labor Movements, Indians, Social Legislation, and Municipal Government. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

Seminary

The Seminary of History, Political Economy and Political Science, consisting of Professors Jameson, Gardner, Munro and Wilson, the graduate students in the subjects named, and a few of the most advanced undergraduates, meets once in two weeks. Its meetings are devoted to original papers, studies of method, and of the historical, economical and political reviews and journals.

Honor Courses

Honor Courses will be arranged in connection with History 1, 2, 3; History 1, 2, 6; History 4, 5, 6; History 7, 8, 9; Political Science 1, 2, 3; Political Science 1, 2, 4; Social Science 1, 2, 3.

IX, POLITICAL ECONOMY

PROFESSOR GARDNER

1, 2, 3, *Elementary Course.* Based upon Andrews's Institutes of Economics and upon readings in the standard authors. Investigations and reports by the class. Three hours. First, Second and Third Terms respectively. Elective for Juniors and Seniors.

4, *History of Economic Thought and Life.* Based upon lectures and upon Ingram's History of Political Economy. Readings in the authors discussed. Three hours. Second Term. Elective for Juniors and Seniors.

5, *Public Finance.* Description of the financial systems of the United States and foreign nations, including local finance, based upon lectures, investigations and reports by the class. Three hours. Third Term. Elective for Juniors and Seniors.

6, *Advanced Course.* Subject to be announced. Three hours. Third Term. Elective for Juniors and Seniors.

Honor Courses

The following will serve as an example of an honor course in Economics:

Special subject, *Banking*. Walker, Political Economy, advanced course, Gilbart, History, Principles and Practice of Banking. Bagehot, Lombard Street. Jevons, Money and the Mechanism of Exchange. Wagner, *Credit-und Bankwesen*, in Schönberg's *Handbuch der Pol. Oek.* Dunbar, Theory and History of Banking. Portions of Bolles's Practical Banking. A study of Banking in the United States, based principally on Richardson's National Banks and the reports of the Comptroller of the Currency.

IX, MODERN LANGUAGES

PROFESSORS WILLIAMS, LANGDON AND JEWETT, AND MESSRS. CROWELL, SCOTT AND SWIFT

GERMAN

PROFESSOR JEWETT, MESSRS. SCOTT, SWIFT AND CROWELL

1, 2, 3, *Elementary Course.* Three hours. First, Second and Third Terms respectively. Required of Sophomores.

PROFESSOR JEWETT, MESSRS. SWIFT AND CROWELL

4, 5, 6, *Schiller and Lessing.* Three hours. First, Second and Third Terms respectively. Elective for those who have taken Courses 1, 2 and 3.

PROFESSOR WILLIAMS [this year MR. SWIFT]

7, 8, 9, *Goethe.* Three hours. First, Second and Third Terms respectively. Elective for those who have taken Courses 4, 5 and 6.

PROFESSOR WILLIAMS [this year MR. SWIFT]

10, 11, 12, *Middle High German.* Paul's *Mittelhochdeutsche Grammatik, Das Nibelungenlied.* Lectures and Essays. One hour. First Second and Third Terms respectively. Elective for Seniors and graduate students.

PROFESSOR WILLIAMS [this year MR. SCOTT]

13, 14, 15, *Middle High German.* Paul's *Grammatik. Gedichte* of Walther von der Vogelweide. *Parzival* of Wolfram von Eschenbach. Lectures upon Teutonic Mythology and German Literature, Critical Study of selected Topics in German Literature, and The ses. One hour. First, Second and Third Terms respectively Elective for graduate students.

PROFESSOR WILLIAMS [this year MR. SCOTT]

Honor Courses

a, Sophomore Year. (1) Grimm. *Maerchen*, Otis's edition. (2) Wilhelmi, *Einer Muss Heirathen*. (3) Zschokke, *Der Zerbrochene Krug*.

b, Junior Year. (1) Benedix, *Doctor Wespe*. (2) Heine, *Gedichte*. (3) Schiller, *Wilhelm Tell*. (4) Körner, *Gedichte*, *Leier und Schwert*. (5) Palleske's Life and Writings of Schiller, and Essays upon Schiller. (6) Sime's Life and Writings of Lessing, and Essays upon Lessing.

c, Senior Year. (1) Goethe, *Egmont*. (2) Goethe, *Hermann und Dorothea*. (3) Lewes's Life of Goethe. (4) Boyesen's Goethe and Schiller. (5) Bossert's *Goethe et Schiller*. (6) Essays upon Goethe.

THE ROMANCE TONGUES

French

Professor Langdon and Mr. Crowell

1, 2, 3, *Modern French*. Translation by the Class of easy works in modern French. Drill in the Grammar. Three hours. First, Second and Third Terms respectively. Required of the Third Division, Freshman Class.

Mr. Crowell

4, 5, 6, *Modern French*. Advanced Course. Modern Novels, Plays and Poems. Special attention to idioms. Frequent examinations in translation. Three hours. First, Second and Third Terms respectively. Required of the First and Second Divisions, Freshman Class.

Professor Langdon

7,'8, 9, *Classical French*. Literature of the Seventeenth Century. The Masterpieces of Corneille, Molière, Racine and La Fontaine read in the original and discussed in French. Lectures. Three hours. First, Second and Third Terms respectively. Elective for Sophomores who have passed with credit in Course 2, or are specially admitted by the instructor.

Professor Langdon

10, 11, 12, *French Literature of the Nineteenth Century*. Lectures on the Literary Movements of Modern France. Study of the Masterpieces of the Romantic and Realistic Schools. Essays. Three hours. First, Second and Third Terms respectively. Elective for Juniors who have passed with credit in Course 9, or are specially admitted by the instructor.

Professor Langdon

13, 14, 15, *French Grammar and Composition.* One hour. First, Second and Third Terms respectively. Elective for those who have passed with credit in Course 6.

PROFESSOR LANGDON

16, 17, 18, *Special Study of Sixteenth Century Authors and of the Renaissance in France.* One hour. First, Second and Third Terms respectively. Elective for graduate students.

PROFESSOR LANGDON

19, 20, 21. *Introductory Course in Old French and Provençal.* One hour. First, Second and Third Terms respectively. Elective for graduate students.

PROFESSOR LANGDON

Honor Courses

For properly qualified candidates for honors in French, the Instructor lays out courses of reading supplementary to any of the above.

ITALIAN

PROFESSOR LANGDON

1, 2, 3, *Introductory Course.* Grammar. Reading of Modern Plays and Novels. Three hours. First, Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors.

4, 5, 6, *Classical Course.* Selections from Dante, Petrarch and Boccaccio. One hour. First, Second and Third Terms respectively Elective for graduate students.

SPANISH

PROFESSOR LANGDON

1, 2, 3, *Introductory Course.* Grammar. Reading of Modern Authors and Novels. Three hours. First, Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors.

The introductory Courses in Italian and Spanish are at present to be given in alternate years. Spanish is offered for 1892–'93.

The Courses noted as open to graduates are especially designed for candidates for advanced degrees.

XI, MATHEMATICS

PURE MATHEMATICS

PROFESSORS CLARKE AND DAVIS AND DR. MANNING

1, *Geometry, Solid and Spherical.* Wells's Elements of Geometry, with original propositions. Three hours. First Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy and Civil Engineer.

PROFESSORS CLARKE AND DAVIS AND DR. MANNING

2, *Trigonometry, Plane and Spherical.* Wells's Trigonometrics. Five hours. Second Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy and Civil Engineer.

PROFESSORS CLARKE AND DAVIS AND DR. MANNING

3, *Algebra.* Wells's College Algebra. Five hours. Third Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy and Civil Engineer.

PROFESSORS CLARKE AND DAVIS AND DR. MANNING

4, *Spherical Trigonometry.* One hour. First Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

5, *Algebra.* Hall and Knight's Algebra. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

6, *Algebra.* Hall and Knight's Algebra. A continuation of Course 5. Two hours. Second Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

7, *Algebra.* Hall and Knight's Algebra. A continuation of Course 6. Two hours. Third Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

8, *Determinants.* Hanns's Determinants. Three hours. Second Term. Elective for those who have taken Course 3 or Courses 5, 6 and 7.

DR. MANNING

9, *Analytic Geometry.* Bowser's Analytic Geometry. Three hours. First Term. Elective for those who have taken Courses 1, 2 and 3. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

10, *Analytic Geometry.* Bowser's Analytic Geometry. Three hours. Second Term. Elective for those who have taken Course 9. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

10 a, *Analytic Geometry.* Bowser's Analytic Geometry. Three hours. First Term. Elective for Juniors. Not offered after the year 1891–'92.

PROFESSOR DAVIS

11, *Modern Methods in Analytic Geometry.* Lectures. Three hours. Third Term. Elective for those who have taken Course 10.

DR. MANNING

12, *Differential Calculus.* Rice and Johnson's Differential Calculus. Three hours. Third Term. Elective for those who have taken Courses 9 and 10. Required of candidates for the degree of Bachelor of Science.

PROFESSOR DAVIS

12 a, *Differential Calculus.* Same as Course 12. Three hours. Second Term. Elective for those who have taken Course 10 a. Not offered after the year 1891–'92.

PROFESSOR DAVIS

13, *Integral Calculus.* Johnson's Integral Calculus. Three hours. First Term. Elective for those who have taken Course 12.

PROFESSOR DAVIS

13 a, *Integral Calculus.* Same as Course 13. Three hours. Third Term. Elective for those who have taken Course 12 a. Not offered after the year 1891–'92.

PROFESSOR DAVIS

14, *Applications of the Calculus.* Rice and Johnson's Differential Calculus and Johnson's Integral Calculus. Three hours. First Term. Elective for those who have taken Courses 12 and 13.

DR. MANNING

15, *Differential Equations.* Johnson's Differential Equations. Three hours. Second Term. Elective for those who have taken Courses 12 and 13. Not offered in 1891–'92.

DR. MANNING

16, *Differential Equations.* Johnson's Differential Equations. Continuation of Course 15. Three hours. Third Term. Elective for those who have taken Course 15. Not offered in 1891–'92.

DR. MANNING

XII, APPLIED MATHEMATICS

PROFESSORS CLARKE AND RANDALL, AND MESSRS. DEXTER AND BROWNELL

MECHANICS

PROFESSOR CLARKE

1, 2, *Elementary Course.* Three hours. First and Second Terms respectively. Elective for students who have taken Pure Mathematics 1–3.

3, 4, *Advanced Mechanics.* Three hours. First and Second Terms respectively. Elective for those who have taken Courses 1 and 2.

*5, *Theory of Structure and Graphical Analysis of Strains.* Three hours. Third Term. Elective for those who have taken Courses 1 and 2.

DRAWING

PROFESSOR RANDALL

1, *Elementary Mechanical Drawing.* Four hours. First term. Elective for all students.

2, 3, 4, *Freehand Drawing.* One hour. First, Second and Third Terms respectively. Elective for all students.

5, 6, *Descriptive Geometry.* Church's Descriptive Geometry. Mechanical Drawing. Four hours. Second and Third Terms respectively. Elective for those who have taken Course 1.

7, *Shades, Shadows, Perspective* and *Isometrical Projections.* Davies's Shades, Shadows and Perspective. Church's Shades, Shadows and Isometrical Projections. Burchett's Perspective and Davidson's Perspective. Three hours. First Term. Elective for those who have taken Courses 1, 5 and 6.

8, *Mechanical Drawing.* Application of the principles of Descriptive Geometry to machine drawing from models. Three hours. Second Term. Elective for those who have taken Courses 1, 5 and 6.

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* This course is the natural continuation of Course 2, but is of importance to the more advanced Engineering and Scientific students.

9 *Mechanical Drawing.* Construction of Higher Curves and their application in the formation of Gear Teeth. Third Term. Three hours. Elective for those who have taken Courses 1, 5 and 6. Additional courses in Mechanical Drawing will be offered in subsequent years to meet the needs of advanced students.

Surveying

Professor Randall, Messrs. Dexter and Brownell

1, 2, *Elementary Course.* Carhart's Surveying. Recitations, field work and plotting. Three hours. First and Second Terms respectively. Elective for Sophomores, Juniors and Seniors. Required of all candidates for the degree of Civil Engineer.

3, *Advanced Course.* Johnson's Theory and Practice of Surveying. Recitations, field work and plotting. Three hours. Third Term. Elective for those who have taken Courses 1 and 2. Required of all candidates for the degree of Civil Engineer. Additional courses in Civil Engineering will be offered in subsequent years to meet the needs of advanced students.

XIII, CHEMISTRY

Professor Appleton, Messrs. Calder, Wilson, and Saunders

1, *Descriptive Chemistry.* Non-metals. Three hours [six hours' attendance]. First Term. Elective for Sophomores.

Professor Appleton, Messrs. Calder and Saunders

2, *Descriptive Chemistry.* Metals. Continuation of Course 1. Three hours [six hours' attendance]. Second Term. Elective for Sophomores.

Professor Appleton, Messrs. Calder and Saunders

3, *Descriptive Chemistry.* Carbon compounds. Continuation of Course 2. Three hours [six hours' attendance]. Elective for Sophomores.

Professor Appleton, Messrs. Calder and Saunders

The Courses 1, 2, and 3, called Descriptive Chemistry, include also Experimental and Theoretical Chemistry. Instruction is given by text-books, by lectures, and by individual laboratory work on the part of the student. The lectures are illustrated by experiments and colored charts and by black-board exercises.

4, *Qualitative Analysis.* Three hours [six hours' attendance]. First Term. Elective for Juniors.

Professor Appleton and Mr. Wilson

5, *Qualitative Analysis continued and Quantitative Analysis begun.* Three hours [six hours' attendance]. Second Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. WILSON

6, *Quantitative Analysis continued.* Three hours [six hours' attendance]. Third Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. WILSON

Qualitative Analysis includes a study of the properties of the metallic elements together with their separation from certain of their compounds, also of the chief non-metals and the acids produced by them.

Elementary Quantitative Analysis includes a study of quantitative precipitations and separations of the most important elements and compounds, and a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.

Students who have taken Courses 1–6 may elect any of the following:

7, 8, 9, *Advanced Quantitative Analysis.* Six hours [twelve hours' attendance]. First, Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. WILSON

10, 11, 12, *Organic Chemistry.* Six hours [twelve hours' attendance]. First, Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

13, 14, *Assaying.* Six hours [twelve hours' attendance]. Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. WILSON

15, 16, *Medical Chemistry.* Six hours [twelve hours' attendance]. Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

17, 18, *Agricultural Chemistry.* Six hours [twelve hours' attendance]. Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

20, *The Scouring and Dyeing of Wool.* Six hours [twelve hours' attendance]. Third Term.

PROFESSOR APPLETON AND MR. WILSON

Course 9, Advanced Quantitative Analysis, includes the assaying of metallic ores, the analysis of agricultural materials including commercial fertilizers, the testing of chemicals used in textile establishments, etc. Students are also required to prepare and read before the class, essays on a series of assigned subjects relating to chemical manufactures.

The Courses 10, 11, 12, Organic Chemistry, include an extended series of exercises in the preparation and testing of organic compounds. These compounds are so selected as fairly to represent the different branches of this important department.

Course 15, 16, Medical Chemistry, includes a thorough study of certain animal products, such as normal urine, morbid urine, various calculi, etc.

Course 20 includes the scouring and dyeing of wool, the cleansing of wool in the fleece, the removal of burs, the preparation and use of the necessary mordants, dye-stuffs, etc.

Honor Courses

Students who work for honors in Chemistry are expected to make some original investigations, approved by the professor in charge. They must also from time to time furnish written reports of their progress in this work.

XIV, PHYSICS

PROFESSOR BLAKE and MR. MOUNT

*1, 2, *General Course.* Deschanel's Natural Philosophy. Lectures, illustrated by experiments. Three hours. First and Second Terms respectively. Elective for Sophomores and Juniors.

PROFESSOR BLAKE

3, *Elementary Course in Electricity and its Applications.* Thompson's Elementary Lessons in Electricity and Magnetism. Three hours. [recitations two, laboratory practice one, the latter requiring two hours of attendance]. Third Term. Elective for Sophomores and Juniors. After the present year this Course will be open only to those who have taken Physics 1 and 2.

PROFESSOR BLAKE

4, *Mathematical Optics.* Mathematical discussion of problems in Optics, especially Diffraction and Polarized Light. Three hours. Third Term. Elective for Juniors and Seniors.

DR. MANNING

5, *Thermo-Dynamics and the Employment of Heat in Motors.* Three hours. Third Term. Elective for Juniors and Seniors.

DR. MANNING

Courses 4 and 5 are to be offered in alternate years.

* This course will be offered the third term of the present year.

6, 7, *Work-Shop Course in Mechanical Processes.* Training in the use of tools for working wood and metals. Three hours [six hours' attendance in shop]. First and Second Terms respectively. Elective for Sophomores, Juniors and Seniors, but pupils applying for this Course are required to take Mechanical Drawing also.

By special permission work-shop practice may be continued for more than one term, but only a single term will count toward the attainment of a degree.

8, *Course in Photography.* Photographic methods and processes, with their applications. One hour. Third Term. Elective for all students duly prepared.

PROFESSOR BLAKE and MR. MOUNT

For the Courses below, familiarity with Peck's Elementary Mechanics or an equivalent is essential, and also a knowledge of the principal facts and theories of sound, light, heat and electricity.

9, 10, *Physical Laboratory.* General Course. Experimental work in Mechanics, Sound, Light, Heat, and Electricity, with mathematical discussion of results obtained and written reports of the work. Three hours [six hours of attendance in laboratory]. First Term: Mechanics and Sound. Second Term: Light, Heat, and Electricity. Elective for Juniors and Seniors who have taken Courses 1, 2, and 3.

PROFESSOR BLAKE and MR. MOUNT

11, *Special Course in Electricity.* Text-book and laboratory practice. Three hours [two in class room and two in laboratory]. Third Term. Elective for Juniors and Seniors who have taken Courses 9 and 10.

PROFESSOR BLAKE and MR. MOUNT

Honors in Physics

The entire course in Physics, which must be pursued with exceptional success to entitle the student to special honors, is as follows:

Elements of Mechanics, the Pure Mathematics of the Sophomore and Junior years, the General Course and the Special Courses in Physics excepting the Special Course in Electricity and the Course in Photography. Also the Advanced Mechanics of Senior Year is required.

XV, ASTRONOMY

PROFESSOR UPTON

1, *General Astronomy.* Young's General Astronomy, with Lectures. Three hours. First Term. Elective for Juniors and Seniors.

2, *General Astronomy continued.* Three hours. Second Term. Elective for those who have taken Course 1.

3, *Practical Astronomy.* The applications of Astronomy in Navigation and Geodesy. Theory and use of instruments. Three hours. Second Term. Elective for those who have taken Course 1, 2.

4, *Practical Astronomy continued.* Three hours. Third Term. Elec- for those who have taken Course 1, 2.

METEOROLOGY

1, *General Course.* Three hours. Third Term. Elective for Juniors and Seniors.

XVI, ZOÖLOGY, GEOLOGY AND ANTHROPOLOGY

PROFESSORS PACKARD and BUMPUS

ZOÖLOGY

1, *General Course.* Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR PACKARD

2, *Laboratory Course.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR BUMPUS

3, *Comparative Anatomy of the Vertebrates.* Three hours. First Term. Elective for those who have taken Course 1 or Course 2.

PROFESSOR BUMPUS

4, *Laboratory Course in Histology and Embryology.* Three hours. Second Term. Elective for those who have taken Course 3.

PROFESSOR BUMPUS

GEOLOGY

*1, 2, *General Course.* Three hours. First and Second Terms respectively. Elective for Seniors.

PROFESSOR PACKARD

ANTHROPOLOGY

1, *General Course.* Three hours. Third Term. Elective for Seniors.

PROFESSOR PACKARD

*Those who elect this course the first term are expected to pursue it the second as well.

XVII, PHYSIOLOGY

PROFESSOR CHAPIN

1, *Course in Hygiene.* One hour. Third Term. Required of Freshmen.

*2, 3, *Elementary Course in Physiology.* Three hours. First and Second Terms respectively. Elective for Juniors.

XVIII, BOTANY

PROFESSOR BAILEY AND MR. BENNETT

1, 2, 3, *Vegetable Morphology.* Three hours. First, Second and Third Terms respectively. Required of Freshmen who are candidates for the degree of Bachelor of Philosophy. Elective for Sophomores.

4, 5, 6, *Vegetable Morphology, continued: Histology and Physiology.* Three hours. First, Second and Third Terms respectively. Elective for those who have taken Courses 1, 2 and 3.

XIX, AGRICULTURE

PROFESSOR JENKS

1, *Agricultural Zoölogy.* One hour. First Term. Required of students upon state scholarships.

INSTRUCTION FOR GRADUATE STUDENTS

Brown University offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries, elsewhere referred to, the laboratories of the University, its seminaries, its observatory, and its various museums, all of a nature greatly to assist advanced study, but the industries of the City of Providence offer numerous and rare opportunities for special scientific investigations.

The following Courses of Instruction are at present available for graduate students, those marked with the star being intended primarily for such students, the rest meant also for higher undergraduate work. Candidates for graduate degrees and other advanced pupils will find all of

*Those who elect this course the first term are expected to pursue it the second as well.

these Courses, in both methods and subjects, exceedingly helpful. The numbers of the Courses refer to the general conspectus, pages 47 to 71, inclusive.

In Philosophy

Courses 3–13 inclusive. Course 14*.

In the Classics

Classical Archaeology 2*. Weekly through the year.

Private Life of the Greeks and Romans. Weekly. Second and Third Terms.

Latin 7, 8, 9. History and Development of Roman Poetry. Three times a week through the academic year 1891–'92.

Latin 10, 11, 12. History and Development of Latin Prose. Three times a week through the academic year 1892–'93.

Latin. Seminary Course for the consideration of special topics relating to Roman History and Literature. Weekly through the year.

*Roman Antiquities**. Weekly through the year.

Classical Philology 1, 2, 3. Historical Greek Grammar. Three times a week through the year.

Classical Philology 4, 5, 6. Historical Latin Grammar. Three times a week through the year.

Classical Philology 7*. Seminary Course. Weekly, two-hour session, through the year.

Sanskrit 1 (after this year). Twice a week through the year.

In the Semitic Languages

Hebrew 4. Critical Study of Isaiah. Three times a week. First Term.
Aramaic 1, 2. Three times a week. Second and Third Terms.
Arabic 1, 2, 3. Three times a week through the year.
Assyrian 1, 2, 3. Three times a week through the year.

In Rhetoric and English

Rhetoric 5, 6, 7. Historical Course. Weekly through the year.
English 4, 5, 6. Shakspere and the English Drama. Three times a week through the year.
English 7, 8, 9. Nineteenth Century Literature in England and America. Three times a week through the year.
English 10, 11. Elementary Anglo-Saxon. Three times a week. Second and Third Terms.
English 12, 13. Anglo-Saxon Poetry: Béowulf and Elene. Three times a week. First and Second Terms.

In History, Political and Social Science

History 7, 8, 9.* Constitutional and Political History of the United States. Three times a week through the year.

Political Science 1, 2, 3. The State, Comparative Constitutional Law, International Law. Three times a week through the year.

Political Science 4. Three times a week. Third Term.

Social Science 1, 2, 3. Sociology: Modern Social Problems. Three times a week through the year.

History 10.* Principles of Historical Criticism. Weekly through the year.

Seminary of History, Political Economy, and *Political Science.** Once in two weeks through the year.

Political Economy 4. History of Economic Thought and Life. Three times a week. Second Term.

Political Economy 5. Public Finance. Three times a week. Third Term.

Oriental History 1, 2, 3. The Ancient East, Islâm, The Crusades. Three times a week through the year.

In Modern Languages

German 4-9, inclusive. Schiller, Lessing, Goethe. Six times a week through the year.

German 10,* 11,* 12.* Middle High German. Weekly through the year.

German 13,* 14,* 15.* Middle High German. Weekly through the year.

French 16,* 17,* 18.* Sixteenth Century Authors and the Renaissance. Weekly through the year.

French 19,* 20,* 21.* Old French and Provencal. Weekly through the year.

Italian 4,* 5,* 6.* Classical Course. Dante, Petrarch, Boccaccio. Three times a week through the year.

In Mathematics

Pure Mathematics 12. Modern Methods in Analytic Geometry. Three times a week. Second Term.

Pure Mathematics 13. Determinants. Three times a week. Second Term.

Pure Mathematics 14. Applications of the Calculus. Three times a week. First Term.

Pure Mathematics 15 and 16. Differential Equations. Three times a week. Second and Third Terms.

Course supplementary to drawing Courses 5 and 6, in Descriptive Geometry. Weekly. Second and Third Terms.

Course supplementary to drawing Course 7, in shades, shadows and perspective. Weekly. First Term.

In Chemistry

None of the Courses in Chemistry are exclusively for graduates, but of the advanced Courses 4–18 inclusive will be found appropriate for graduates who have not had them. Graduate students are afforded all practicable facilities for carrying on, in the Chemical Laboratory, investigations approved by the Professor in charge. Graduate degrees in Chemistry will only be conferred after a large amount of laboratory work.

In Physics and Astronomy

Physics 4, 5. Mathematical Optics and Thermo-Dynamics. Three times a week. Third Term. Each subject is presented every other year.

Physics 8. Photography. Weekly. Third Term.

Physics 9, 10. Physical Laboratory Course. Individual experiments. Six hours in laboratory weekly. First and Second Terms.

Physics 11. Special Course in Electricity. Three times a week. Third Term.

Astronomy. For graduates who wish to pursue advanced courses in this branch appropriate work is laid out in theoretical and practical Astronomy. Such students may also assist in the regular observations carried on at the Observatory.

In Zoölogy and Geology

Zoölogy 3. Comparative Anatomy of Vertebrates. Three times a week. First Term.

Zoölogy 4. Introductory Histology and Embryology. Three times a week. Second Term.

Zoölogy 5. Advanced Course in Embryology. Three times a week. First Term.

Zoölogy 6. Advanced Course in Morphology. Three times a week. Second and Third Terms.

Anthropology 1. General Course. Three times a week. Third Term.

In Botany

Botany 4, 5, 6. Advanced Course. Vegetable Morphology, Histology, and Physiology. Three times a week. Through the year.

GENERAL DESCRIPTION

OF THE

DEPARTMENTS OF INSTRUCTION

I, PHILOSOPHY

The primary aim in the required philosophical studies is to strengthen and discipline the pupil's mind, and so far as possible to render him a safe, strong, independent thinker and investigator. Psychology is taught from the experimental rather than from the rational point of view, but by means of rigorous drill in logic the course in these two studies is made to afford a mental discipline no less severe than that of the former course in Intellectual Philosophy.

Through all the study in this department goes a practical purpose, especially pronounced in Ethics, to aid pupils in mastering those important problems which are basal to all high intellectual life and to conduct. Great attention is given to the topics of Practical Ethics and Casuistry now of such peculiar interest to the world.

In the History of Philosophy, which is elective, effort is made, one term in ancient philosophy, from Plato as centre, the next in mediæval, with Thomas Aquinas as the fixed point, the third in modern, beginning with Kant, to reveal the concatenation of philosophical systems and the march of systematic thought from master to master. The teaching is not merely analytic or historical, but positive and constructive, the reverse of skeptical. The evolution

of religion and the course and meaning of divine revelation are pointed out and emphasized.

Philosophical Seminary

Once each week the President meets the graduate and honor students in Philosophy, for instruction and discussion in difficult and unsettled problems of mind and life. As a basis for this course two or more of the following works are read each year: Lotze's and Bowne's Metaphysics, DesCartes's Discourse on Method, Sidgwick's Methods of Ethics, Selections from Locke and Berkeley, Hume's Inquiry Concerning Human Understanding, Kant's Critique of Pure Reason, Wallace's Logic of Hegel, Pfleiderer's Philosophy of Religion, Edward Caird's Critical Philosophy of Kant.

II, GREEK LITERATURE AND HISTORY

The studies in this department are prescribed for the Freshman year, and elective for the Sophomore, Junior and Senior years.

The courses of instruction and study aim to give the student a critical knowledge of the language, to secure for him facility in reading and appreciating Greek authors, and to interest him in the study of the literature, civilization and life of the ancient Greeks.

For those who are candidates either for the higher degrees or for honors, the courses of reading may be greatly extended.

The President's Premiums for excellence in the preparatory Greek studies are awarded after a special examination at the beginning of the Freshman year.

The Foster Premium for the highest excellence in the Greek language is awarded after a critical examination at the close of the Senior year.

III, ROMAN LITERATURE AND HISTORY

The studies in this department, as in Greek, are prescribed for the Freshman year, and elective for the Sophomore, Junior and Senior years. The courses of study have been specified in preceding pages, but other authors than those named may be read in different years.

The courses of the Freshman year are based upon prose writers. While grammatical study and literary criticism receive attention, the special aim is to enable the student to acquire facility in reading and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of the public and private life of the Romans. Special topics are assigned to committees and to individual students for investigation, and lectures are given by the instructors.

The courses which are open to the Sophomores relate to lyric poetry and satire. The literary side of the study is made prominent. The instructor endeavors to aid the student in appreciating the characteristics of Roman thought and the literary quality of Roman poetry. A part of the time is occupied with a critical study of the form and structure of the poems, while a part is devoted to rapid reading with a view of comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced course, open to Juniors and Seniors, relates to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman Literature. Comparatively little time is occupied with the formal work of recitation. Lectures are given by the instructor on the lives and writings of the authors and characteristic selections are read and discussed. Topics in literary history and

criticism, adapted to individual tastes, are assigned to members of the class for special study and investigation.

The President's Premiums for excellence in Preparatory Latin are awarded after a special examination at the beginning of the Freshman year.

Classical Seminary

In the interest of high and independent scholarship in the classical department, a commodious room has been opened in Sayles Memorial Hall for the purposes of a Classical Seminary. It is supplied with an extensive special library purchased with funds generously contributed by friends of the University interested in Classical Studies. The books have been selected with special reference to the needs of advanced students. It is the aim of the department to make this room with its literary treasures and other appliances an attractive and inspiring place for independent work, where students pursuing special lines of study and research may find within their reach the needed helps.

The Seminary is primarily intended for graduates and honor students, but it is open also to such members of the elective classes in the department as are qualified to profit by its advantages.

The room is lighted by electricity and is open throughout the day and evening.

Classical Archæology

In connection with the instruction in Greek and in Latin, courses in Classical Archæology are offered to the Senior Class and to graduate students. A rapid review of the art of Egypt and of the Orient precedes the study of the earliest Hellenic art. The development of Greek

art through its several periods and in its different schools follows, and the course closes with the after-bloom and the decadence of art in the Roman period. The text-book, Collignon's Manual of Greek Archæology, translated by Wright, is supplemented by lectures and by collateral reading. The plaster casts in the Museum of Classical Archæology, photographs, engravings, etc., are used to illustrate the subject.

The object of this study is to bring the student near to those quickening and controlling motives in ancient life, especially in the life of the Greek people, which found expression in the forms of Art. The attempt is made to study the most significant specimens, to note the most important facts, and to secure a solid basis for later and more special studies in Archæology and in the criticism of Art. In discussing the works of classical art it is the intention to set forth some of the primary principles of the grammar of Art, and thus to prepare the way for the study of the art of later times and peoples.

A knowledge of Greek, Latin, German and French is most helpful to those who pursue this study, but is not indispensable.

IV, CLASSICAL PHILOLOGY AND SANSKRIT

In the work in Classical Philology special emphasis is laid upon courses in the historical grammar of the two classical languages. In the Seminary attention is paid alternately to the textual criticism of a classical author and to the study of the Greek dialects. From time to time additional courses may be offered in certain more advanced lines of classical study.

In the Sanskrit work offered at present the aim is to make the study tributary to the more advanced courses

in the historical grammar of the Greek and Latin languages. In accordance with this purpose special attention is paid to the language, its sounds and inflections, and to their historical relation. A simple text is read, but the scope of the course precludes any wide examination of the literature.

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

In the elementary courses in Hebrew, Arabic and Assyrian an effort is made thoroughly to ground the student in the principles of the grammar of these respective languages, enabling him to translate easy prose with facility. In Hebrew, for example, after the elements of grammar and the first eight chapters of Genesis have been studied carefully by means of Harper's text-books, easy narrative prose is taken up, to be followed by more difficult sections as the student's grasp of the language improves.

In Oriental History three courses are offered, either of which may be taken independently of the other two. The first, which runs through the first term, is designed to present a general survey of the ancient Orient, and the endeavor is made to give the student some insight into the great civilizations of the valley of the Nile and of the Tigris and Euphrates. Special attention is paid to the history of the Semites. The geography of Palestine is studied, and photographs of many of its most interesting spots are shown.

In the second term a course on the rise and spread of Islâm is offered. The life of Mohammed, the religion which he founded, and the Koran, which is the chief oracle of that religion, are studied. Then follows a general survey of the conquests of the Moslems till the conflict of East with West in the Crusades.

In the third term the history of the Crusades is studied, mainly from Arabic sources.

As all the courses in this department are open to graduate students, and as only elementary courses have been spoken of, it may be well to state that courses are arranged for any students possessing the necessary preparation, who may desire to study either of the Semitic languages not mentioned above, or to do advanced work in the three mentioned. In 1892–'93, for example, it is expected that there will be offered an advanced course in Hebrew, in which the book of Isaiah will be read critically, also courses in Classical Aramaic (Syriac) and in Biblical Aramaic.

VI, RHETORIC AND ORATORY

The aim of the course in Rhetoric is to give a thorough and systematic training in the principles and practice of English Composition. The different kinds of composition are set forth in their logical relations to each other; and essays and orations, whose plans are based upon specific rhetorical methods, are required from the student.

In the Freshman year the purpose is to ground students in the principles of rhetorical construction as applied to the sentence and the paragraph. Particular attention is also paid to the formation and analysis of the Plan as a fundamental process in composition.

In the Sophomore year the subject of Style is studied, with reference to the characteristics of prose diction as determined by the subject and occasion; also general processes in the discovery and arrangement of material, including different forms of presenting the same. Narration, description, exposition, argumentation and persuasion are discussed theoretically, and practically applied in essays written according to the principles of each,—six in all during the year. Readiness of expression is cultivated by

means of composition in the class-room, upon themes with which the student is sufficiently familiar to begin a thought-process at once. These paragraphs, as well as the essays mentioned above, are subject to criticism and correction. Reports upon subjects assigned for personal research are from time to time presented in writing. There are also oral discussions of questions of present interest. In addition, the rhetorical analysis of English masterpieces is made a part of the daily recitation. Almost every type of writing is examined in this way, concluding with the study of the oration as a special and comprehensive literary form, and as preparatory to the rhetorical work of the following year. An Honor Course in the Science of Rhetoric is offered to this class.

In the Junior year five orations are required of each student. After correction, revision, and rehearsal before the Instructor in Elocution, they are delivered in the presence of the class.

A course of lectures on the History of Oratory is given during the year, to which members of the Senior and Junior classes are admitted. The periods covered by these lectures may be designated as the Greek, Roman, Patristic, Mediæval, Reformation, Parliamentary and Congressional. Occasional oratory is considered under the forms which it includes.

Elocution

The course in Elocution for the Sophomores includes lectures on the fundamental principles of speech: breathing, formation of tone, articulation, pronunciation, stress, emphasis, position, gesture, with such drill exercises in vocal development as will assist the student to become an effective speaker. Oral readings and frequent declamations by members of the class afford opportunity for personal criticism and for the correction of individual faults of utterance.

For the Juniors, the work of the year consists in the writing, the rehearsal, and the public delivery before the class of five orations per member.

The Seniors have especial drill preparatory to Commencement.

VII, ENGLISH LITERATURE AND LANGUAGE

In the required work of the Junior year provision is made for instruction in both Literature and Language. In regard to the latter, it is believed that the systematic study of the history of the language can be profitably pursued only by students who have some knowledge of the earlier forms of the language. The first term of the Junior year is therefore devoted to the critical study of the language of Chaucer, about one-third of the Canterbury Tales being read in class for that purpose. To students who wish to pursue their linguistic studies further, are offered an additional course in Middle English, a course in the language of Shakspere, and an elementary and an advanced course in Anglo-Saxon.

The second and third terms of the Junior year are devoted to the study of the development of English Literature. During the second term effort is made by means of lectures and a reference book to bring out clearly the chief periods into which English Literature is divided, with the characteristics which distinguish the periods from one another. Along with the lectures and the study of the reference book, the reading of typical selections from the writings of the great poets in whom the characteristics of each period find most definite expression, is required. During the third term the great prose writers are studied in the same way, with especial reference to the development of English prose into its modern form. In

both these courses the minor poets and prose writers are, for the sake of clearness, entirely neglected.

The character of the elective courses in Literature is set forth on pages 55, 56 and 57.

VIII, HISTORY, POLITICAL AND SOCIAL SCIENCE

The course of instruction in History, Political and Social Science continues throughout the Junior and the Senior year. During the first two terms of the Junior year history is required. Except in these two instances, all the courses are elective. All are open to both Juniors and Seniors, except the courses in American History and in the Constitutions and Politics of the United States, which, it is thought, cannot be satisfactorily pursued until after the required course in European history has been completed. Besides the general course in the history of mediaeval and modern Europe, opportunity is presented for the more detailed study of English History, of the Renaissance and Reformation, and of the History of Europe since 1815. A comprehensive course in American History is given during the first two terms of Senior year. It is succeeded by a course consisting of practical exercises in American History, by which advanced students may be trained in original research and introduced to the higher departments and methods of historical study. The work in this course is carried on with great freedom. Those pursuing it meet as a class only occasionally, by far the greater part of their instruction being given to them individually, among the books in the library.

In Political Science, elective courses are offered in the study of the origin and development of the State, its con-

ditions, forms, end and functions, and in the comparative study of European Constitutions. Courses are also given in the study of International Law and International Relations, and in the study of the Constitutions and Politics of the United States. In Social Science courses are offered which deal with the Principles of Sociology and the Development of Primitive Civilization, and with various Modern Social Problems. In both Political and Social Science a continuous and systematic course is presented, beginning with elementary principles and leading up to the discussion of present problems.

The Seminary of History, Political Economy and Political Science, consisting of the four teachers, the graduate students, and a few of the most advanced undergraduates, is an organization designed to foster by co-operation the practice of original research in the subjects named, to familiarize students with methods more advanced than those of the ordinary college class, and to incite them to interest and active participation in the higher branches of work in History, Political Economy, and Political and Social Science.

IX, POLITICAL ECONOMY

The work in Political Economy comprises elementary and advanced courses, each three hours a week, and open to members of the Junior and Senior Classes, no one being permitted, however, to take an advanced course who has not already taken the elementary course. For the present year the elementary course extends through the first and second terms. An advanced course in the history of economic thought and life is given in the second term, and two advanced courses, one of which treats of public finance, are given in the third term.

Beginning with September, 1892, the elementary course will extend through the year, and one or more advanced courses will be given each term. These courses will vary from year to year, but will cover such subjects as the history of economic science, outline of the history of the organization of labor and industry since the middle ages, public finance, money and banking, the growth, present condition and organization of international commerce, the state as a factor in economic life, railways and railway problems, schemes and methods of economic reform, and methods of economic investigation with special reference to statistics, free trade and protection.

The basis of work in the elementary course is E. B. Andrews's Institutes of Economics, in connection with which the class are required to read some standard work, such as Mill's Principles of Political Economy or Walker's Political Economy. The members of the class are also required to write essays and make special investigations and reports upon assigned topics, and the effort is made to point out and discuss so far as possible the practical applications of economic doctrines. In advanced work reliance is placed chiefly upon lectures, together with assigned reading and investigation. In the course on the history of economic science extended reading in the authors treated is required.

X, MODERN LANGUAGES

The department of Modern Languages presents courses in German, Middle High German, French, Old French, Provençal, Italian, and Spanish. In the academic courses the main purpose is two-fold : to lay a broad and firm foundation in the forms and syntactical structure of the language studied, and to furnish an introduction to an appreciative acquaintance with the literature. In the graduate

courses the aim is to meet the wants of those who wish to make a specialty of Modern Languages, particularly those who are studying for the degree of Master of Arts or of Doctor of Philosophy.

Modern Language Seminary

The design of the Seminary is to afford to graduate students and to such of the undergraduate students as are pursuing honor courses, facilities for their work, and an opportunity to meet frequently the officers of the department for consultation and guidance. For this purpose a commodious room has been set apart in Sayles Memorial Hall, open from 8 A. M. to 10 P. M. daily. Here will be found a well-selected library of reference books, and other aids in the pursuit of advanced study. The officers visit the Seminary room daily, meet the special students under their charge one or more times each week, and read with them. All graduate students in the department are cordially invited to make use of the advantages which this Seminary offers.

German

This study may be pursued three years as undergraduate work, from the beginning of the Sophomore year to the end of the Senior year, in recitations three times a week, and may be continued by graduate students in advanced courses of one, two or three years' duration. The following are the courses offered:

1, *Introductory Course*, of one year. Careful attention is here given to the language, to forms and to syntax, enforced by daily drill in inflection and in parsing, by written exercises and by practice in speaking. A large variety of short pieces in prose and in verse is read from the best authors, and each piece is pronounced aloud in Ger-

man, translated, analyzed and construed. Proper attention is given from the outset to literary quality, but the principal stress is laid upon the linguistic side of the study.

2, *Course in Schiller.* The aim of this is to introduce the class to an acquaintance with Schiller. Less attention is now given to the grammar and more to the literary elements, to the thoughts presented, to the beauties of style, to the versification, and to a comparison of Schiller with other writers.

3, *Course in Lessing.* The literary aim is here the dominant one. The study of the grammatical side of the German is, however, not lost sight of, though very little time is given to class-room drill.

4, *Course in Goethe.* In this the literary side of the study absorbs the whole attention. There is no study of grammar merely as grammar, though the student is held responsible for the most accurate translation and interpretation of all the work set before him. As in the preceding courses, all the work must be read at least twice in the original.

5, *Course in Middle High German.* This course is for those who wish to acquaint themselves with the rich and varied literature of the Swabian Era. The Middle High German language is taken up and mastered so far as needed for literary purposes. *Das Nibelungenlied* is carefully read, and such subjects in the early literature and history and in mythology as are essential are investigated.

6, *Course in German Literature in general.* This course opens at the beginning of the Junior year and continues to the end of the Senior year. During the first year thirty-five lectures are given, in which are discussed the history, institutions and character of the early Germans,

the earliest pieces of literature are analyzed, and especial attention is devoted to the great epics and rich lyric poetry of the Swabian time. During the second year an additional course of thirty-five lectures discusses the modern period of literary bloom, beginning with the appearance of Klopstock's *Messias,* and including the Romantic School. The class uses a handbook, the contents of which it is required to master. Special topics are assigned from time to time upon which the members of the class submit essays.

7, *Honor Courses.* These are open only to those who maintain in German a rank of ninety per cent. Each course consists of a careful preparation of selected pieces from a variety of authors, but mainly from the same author whose works the class is reading. The student is guided in his reading and finally examined, both orally and in writing, upon his work.

8, *Graduate Course.* An advanced course is established for those who desire to pursue German, in connection with other studies, for the Master's or the Doctor's degree. This course includes, among others, the following subjects :

(1) Middle High German Grammar.

(2) Germanic Mythology.

(3) A study of the Middle High German Literature.

(4) A critical reading of *Das Nibelungenlied, Parzival* and *Walther von der Vogelweide.*

(5) A course in New High German Literature.

(6) Special subjects for critical research.

The Romance Tongues

French

Candidates for degrees are at their entrance to College examined in French grammar and easy French prose. They are then separated into three divisions, based upon scholarship. The regular course extends over the first two years, three hours a week. Its object is two-fold: to enable the student to read the language so soon as possible, without reference to grammar or dictionary, and to furnish an introduction to an appreciative acquaintance with the literature. Owing to the size of the classes little can be done toward teaching the student to write or speak the language, but much time is spent in reading at sight in the original and in a careful analysis of idioms and peculiar constructions, with a view to an appreciation of the French language and literature.

1, *Drill Course.* This is intended for those members of the Freshman Class who have not enjoyed the best advantages for preparation. In it careful attention is given to grammatical forms and ordinary syntax, while the authors read are chosen for their simplicity. The work of the class-room is supplemented by easy readings outside. Careful training in pronunciation is made a special feature. Those who do well are soon promoted into the advanced divisions.

2, *Advanced Course.* To this are admitted only those who come to College with a very thorough preparation. In it modern authors are read to the class by the instructor in the original, only difficult constructions and new or rare words being translated, the object being to make the original as soon as possible a direct medium of thought. Information in regard to French life, manners and history is incidentally imparted. Frequent examinations in translation test the work and progress of the class.

3, *Classical Course.* This is offered only to those who have passed with credit in the advanced course of the Freshman year. The object of this course is to furnish an introduction to the study of the classics of French literature. In a few introductory lectures the field of mediaeval and renaissance literature is surveyed, with the aim of developing future interest in some one of its many departments. The authors chosen are read in turn by the class and the instructor in the original, only difficult passages being translated into English. Attention is called to literary features, and comparisons are made with well-known English masterpieces. Outside reading is assigned in works at the disposal of the class, and from time to time essays are written on some period, subject or author chosen by the student.

4, *Honor Courses.* These are courses of reading intended to supplement the work done in class. Only the best students receive the permission of the Faculty to take them. These must do thoroughly the work in class, and pass satisfactory examinations thereupon.

5, *Graduate Courses.* These are open only to graduates or undergraduates having superior preparation, who intend to make a special study of the Romance languages. They are intended to complete the previous courses of study in the French language and literature, without, however, becoming merely linguistic or philological. Though some attention is paid to phonetics and to historical grammar and the main principles of Romance philology, literary study predominates.

Italian and Spanish

The general aim of these courses is similar to that of the Freshman courses in French, namely, to enable the student to read fluently and appreciatively modern Italian and Spanish authors.

XI, PURE MATHEMATICS

The Mathematics of the Freshman year is prescribed for those students entering for the degree of Bachelor of Arts and Bachelor of Philosophy, and elective for the remainder of their courses. These required courses are essential to a thorough knowledge of the elementary principles of mathematical science, which prepares the student for any advanced mathematical work. They serve also to discipline the mind to careful analysis and strict logical methods of thought and to the development of the reasoning powers. The invaluable faculty of exact expression they likewise cultivate.

In the higher elective classes in the Pure Mathematics the aim is also two-fold: first, mental discipline for those students who do not intend to pursue the subject further, and second, a thorough mathematical foundation for those who desire to make mathematical studies a specialty.

XII, APPLIED MATHEMATICS AND ENGINEERING

The mathematical studies of candidates for the degrees of Bachelor of Science and Civil Engineer are largely prescribed throughout the four years. While these are eminently disciplinary, still they are arranged with special reference to professional work or scientific investigation.

Here as in the pure mathematical studies students are required to perform original problems bearing upon and illustrating the principles under consideration. Especially is this the case in Applied Mathematics, where problems are given, so far as possible, similar to those with which students will be likely to meet in their professional work.

The full course in Civil Engineering occupies four years, but a longer or a shorter course may be pursued if the student so elects. Those not wishing the full course find the studies so arranged that the knowledge and practice acquired in a partial course is practical and available. Any part of the engineering course is open as an elective to all students prepared by previous work to pursue it to advantage.

The following is in full the order of study for the Regular Course in Civil Engineering :

First Year. 1, Geometry, Trigonometry, and Algebra, as for the first year of Pure Mathematics.

2, Mechanical Drawing, consisting of instruction in the use of instruments, discussion, proof, and application of the methods of constructing Plane Geometrical Problems and the more complicated Plane Curves, flat and graduated Tinting, the principles of Orthographic and Isometric Projections, and their application in Model Drawing.

3, Free-hand Drawing, consisting of pencil drawings of models, introducing the principles of Orthographic Projections, Shades, Shadows, and Perspective. At present this subject is taught as subsidiary to Mechanical Drawing, and the aim is to enable students to make hasty but intelligible machine sketches which may be used as guides in the more accurate drawings which follow.

4, Descriptive Geometry, consisting of the discussion and proof of the various methods of constructing a large number of problems, with extensive and accurate application of these methods in the Drawing Room.

Second Year. 1, Elementary Mechanics, embracing the fundamental principles of Mechanics, treated from a

mathematical point of view, with such experiments as are necessary to illustrate principles.

2, Analytical Geometry as indicated on page 64.

3, Shades, Shadows, Perspective, and Isometric Projections, comprising recitations and mechanical drawing based on the principles of Descriptive Geometry.

4, Mechanical Drawing, consisting of free-hand sketching, detail and assembled drawings of machines, and the study of the theoretical and practical methods of constructing gear teeth. Lectures and drawing.

5, Surveying, comprising recitations, field work and plotting. In these are embraced a study of the nature, use and adjustment of engineering Instruments, Compass and Transit Surveying, Computation of Areas, Supplying Omissions, Laying Out and Dividing Land, Section Levelling, Cross-section Work, Computation of Earthwork, Topography, and the laying out of Railroad Curves.

6, Advanced Surveying, comprising recitations, field work and plotting, Land Surveying, Topographical Surveying by the Transit and Stadia, Hydrographic, Mining, and City Surveying, Measurement of Volume and Geodetic Surveying.

The objects sought in Mechanical Drawing are:

1, To prepare the students for the duties of the Draughting Room by bringing before them a large number of theoretical and practical problems which shall involve the principles most needed in the work of the present time.

2, Discipline of the mind through the discussion and proof of original methods of solution.

3, To encourage neatness and accuracy and develope the power of concentration, without which the work of the Draughting Room cannot be acceptably done.

Third Year. 1, Differential and Integral Calculus, as indicated on page 64.

2, Advanced Surveying, comprising recitation work, field work and plotting, construction, use and adjustment of Instruments not considered in the first year, Land Surveying, Topographical Surveying by the Transit and Stadia, Hydrographic, Mining and City Surveying, the Measurement of Volume, Geodetic Surveying and Projection of Maps.

3, Theory of Structure, embracing the construction of Foundations in all classes of soils, Pile Foundations and Substructures, Stability of Blocks of Stone or Brick entering into the structure of walls of buildings, Arches, Retaining Walls and Piers, and trigonometrical Calculations of Strains on different varieties of framed structures, including Trussed and Suspension Bridges, with both steady and rolling loads.

4, Graphical Analysis of strains on Roof and Bridge Trusses and other framed structures, and strains on cables and other portions of Suspension Bridges.

Fourth Year. 1, Advanced Calculus, or General Theory of Equations, as indicated on page 64.

2, Weisbach's Mechanics. The following are among the subjects considered: The laws governing motion and force, Statics of rigid bodies, Theory of the Centre of Gravity in surfaces and solids, Equilibrium and Dynamical Stability of bodies rigidly fastened, Resistance of Friction, Elasticity and Strength of Flexure, Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canals and conduit pipes, and water as a motor.

3, Lectures on the History of Architecture and Architectural Construction.

Special classes, open to all students in Mechanical Drawing, are arranged according to the wants of the applicants.

XIII, CHEMISTRY

The department of Chemistry is intended to afford instruction in the general principles of Chemistry, in Analytical Chemistry, and in the practical applications of these subjects. Opportunity is afforded for studies in Metallurgy, Medical Chemistry, Agricultural Chemistry, and in the chemistry involved in the bleaching and dyeing of textile fabrics.

The courses are not confined to undergraduates, other persons, if prepared to pursue the study to advantage, being admitted ; but a knowledge of the general principles of Chemistry is absolutely necessary to profitable work in any of the more advanced courses.

The course for the first year covers three grand divisions : the study of the non-metals, of the metals, and of the carbon compounds. The course for the second year includes qualitative analysis and elementary quantitative analysis. Work in the other branches mentioned may follow that specified for the first two years. In all cases students perform laboratory work and attend lectures. The lectures in this department deal with the experiments of the students, and also with chemical philosophy, stoichiometry, and new applications of chemical substances in recent inventions.

The Chemical Laboratory is open to students from 8.30 A. M. to 3.30 P. M. on every week day except Saturday.

For laboratory fees, etc., see Index, under "Expenses."

XIV, PHYSICS

Wilson Hall, recently completed, is well constructed and equipped for its purposes as a Laboratory for the experimental study of Mechanics and Physics.

The Workshop and the Physical Laboratory are open to students five days in the week, from 9 A. M. to 6 P. M.

The course in the Workshop is offered to those who have mechanical tastes and aptitudes but may not wish to pursue courses in the mathematics of the subject.

For admission to the work of the Physical Laboratory a familiarity with the elements of Mechanics is required, and also a fair knowledge of the fundamental facts and theories of Sound, Light, Heat, and Electricity. The general descriptive course offered to the Sophomore Class is intended to meet this second requirement. It consists in the study of Deschanel's Natural Philosophy as a text-book, with lectures illustrating by experiments the topics under discussion.

The laboratory work, supplemented by the mathematical courses given in the University, is planned to give a thorough preparation for the special study of Physics.

An elementary course in Electricity is offered to those having a special interest in that subject. The text-book used is Elementary Lessons in Electricity and Magnetism, by Silvanus Thompson. The laboratory work consists mainly in the use of electrical instruments, and practice in the methods of electrical testing and measurement.

Graduate work in Physics. The Physical Laboratory is open to those whose training warrants their undertaking advanced work ; and the instructors in charge are glad to supply such students with every facility consistent with the regular work of the Laboratory.

For special expenses in the Physical Laboratory and in the Shops, see Index, under "Expenses."

XV, ASTRONOMY

The courses of study at present offered in Astronomy are four, two lecture courses in General Astronomy, and two laboratory courses in Practical Astronomy. The former are designed to acquaint the student with the fundamental conceptions of the science, the methods of its professional study and the present state of our knowledge of the heavenly bodies. A general treatise of Astronomy is made the basis of these courses and is supplemented by lectures and by abstracts upon assigned topics prepared by members of the class. The latter comprise a technical study of the theory of astronomical instruments and practice in their use. The sextant, transit, zenith telescope and equatorial are taken up in turn, and the astronomical problems of Navigation and Geodesy solved by actual observation and calculation.

The Ladd Astronomical Observatory

The Observatory is equipped with a Saegmuller-Brashear equatorial of 12 inches aperture, which is supplied with a filar micrometer, spectroscope and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus, and various minor instruments. The equipment is available for illustrating the general courses in Astronomy and for practical use in the applied courses open to undergratuates.

XVI. ZOÖLOGY, GEOLOGY AND ANTHROPOLOGY

Zoölogy

Zoölogy is taught to the Juniors and Seniors by lectures, demonstrations, and laboratory work. It is the aim to adapt the lectures to the needs of the general student. It is taken for granted that no liberally educated person should be without a general knowledge of the principles of Biology, the laws of Animal Morphology, the relations of animals to the world about them and to man, and the probable mode of their origin.

The first term of laboratory work is a course in Comparative Anatomy. The student is required to dissect carefully the more important types of the animal kingdom, and to examine and draw portions of the skeleton of each type of vertebrates. The course is designed to be of value to one intending to study medicine, as one-half of the term's work is devoted to a study of the vertebrate animals.

An advanced course in Vertebrate Morphology, with especial reference to the needs of those intending to study medicine, is now open to Seniors during the first term. This course is followed during the winter term by a practical laboratory course in Histology and Embryology.

Specimens of the following rarer types have lately been procured for use in this department: African lung-fish (*Protopterus*), *Polypterus*, *Siren*, *Amphiuma*, *Caecilia*, and a skin and skeleton of the Australian spiny ant-eater (*Echidna*); also skeletons and other osteological preparations of fishes, batrachians, lizards, birds and mammals, and valuable histological and embryological preparations.

The Zoölogical Laboratory has been refitted with microscopes, microtomes, re-agents, incubators, injecting, dissecting and other apparatus, so that every facility which a

first-class morphological laboratory can afford is open to the student.

Marine Biological Laboratory

Students who have taken any one of the three courses in Zoölogy have opportunity to continue their work during the summer months, under special direction, at the Marine Biological Laboratory, Wood's Holl, Mass. The opportunities for pursuing zoölogical work at this Laboratory are most exceptional.

Geology

Instruction in Geology is given during the first and second terms, by means of lectures, laboratory work and field excursions, with especial reference to the geology, structural and economic, of Rhode Island. The lectures are illustrated by diagrams, models in wood and plaster, and fossils. During 1885, the palæontological collection was rearranged and labelled for the use of students. The fossil flora of Rhode Island is fully represented, and important animal remains of the Rhode Island carboniferous rocks were added in 1888 and 1889.

The course includes lectures and laboratory work in elementary Mineralogy and Lithology. Many duplicate crystals have been purchased, and the students are allowed to use them freely in their work. A special collection of Rhode Island minerals and rocks has been formed, and additional European educational specimens secured.

Through the kindness of Commander Bartlett, U. S. N., two large models from the office of the United States Hydrographic Bureau, Washington, one of the Atlantic ocean-bottom and one of the Caribbean sea-bottom, were deposited in the lecture-room in 1889.

Anthropology

Instruction in Anthropology is offered as a Senior elective in the third term, to consist of a course of lectures on the physical or natural history of Man. It embraces the principles of Ethnology, Ethnography, and Prehistoric Archæology. The course treats of the following topics:

1, Man as related to other Primates, including the differential characters of Man.

2, The Human Races.

3, The Prehistoric Races and the Antiquity of Man.

4, The Origin of Man.

5, Language and Race: Writing.

6, The Arts of Life: Amusements.

7, Primitive Culture, including Folk-lore, Myths, and primitive religious Cults.

8, Primitive Society.

XVI, PHYSIOLOGY

During the third term a number of lectures are given the Freshman Class upon matters relating to personal hygiene. Attention is called to the important laws of health, and practical advice given in regard to exercise, hours for study and sleep, the care of the digestive functions and the eyesight, and upon other matters in which the habits of students are so often faulty.

In the Junior year elementary instruction is given in Anatomy and Physiology, the subjects being considered from a scientific rather than from a practical point of view. The object of these lectures is to lay the foundation for a study of the morphology of the lower animals, those organs and functions which are of particular interest in connection with this receiving the most attention.

This course together with the courses in Chemistry and Biology is especially adapted to students who intend, after graduation, to pursue the study of medicine.

XVII, BOTANY

Instruction in Botany is given by means of lectures and laboratory practice. The course occupies two years.

The first year is devoted to General Morphology and to practice in analyzing and describing plants. A few difficult families, such as *Compositæ*, *Cruciferæ* and *Umbelliferæ* are specially treated. Field excursions to neighboring points of interest, and visits to conservatories are made. Collateral reading and essays are required.

In the second year histological work and the preparation of microscopic objects are taken up. At the same time there are lectures on Vegetable Physiology, Geographical Botany, etc. Collateral reading is again required, with an occasional paper on some given subject.

Original work and observation is encouraged. Students are required and assisted to make illustrative drawings from the objects studied. It is designed in all cases to foster independent reasoning and thoughtful comparison.

The Herbaria and the Museum of Economic Botany

In addition to the large number of herbarium specimens, representing all the orders and most of the important genera, there have been commenced by the Curator series of botanical exhibits intended to exemplify the entire range of Botany, in which will be shown so far as practicable everything of vegetable production which provides for the body sustenance or shelter, clothing or protec-

tion, or prevents or relieves illness, ministers to man's physical needs or satisfies his love of the beautiful. These embrace: (1) A collection of tree exhibits, so prepared as to reveal the character of each tree, and its varied uses in the mechanic arts. (2) A collection of all fruits and seeds, preserved dry or in spirit, with microscopic exemplification of their internal structure. (3) A collection of all food products with displays of the various processes by which the raw material is made useful. (4) A collection of all textiles with representations of the methods by which they are obtained.

Such products as the various sugars, starches, gums, resins, oils, will be fully shown, and also the manner in which they are separated from the other matter contained in the vegetables which supply them. All crude vegetable products and their extracts which are of value in Pharmacy will be so presented as to give the student good opportunity to inform himself in botanical Materia Medica.

Under proper restriction all the botanical exhibits are made accessible to the public and to students.

For the slight special fees in connection with botanical study, see Index, under "Expenses."

XVIII, AGRICULTURE AND THE MECHANIC ARTS

An extended course of study in Agriculture and the Mechanic Arts is open to all students. It includes the courses offered in the departments of English, Political Economy, Mathematics, Engineering, Chemistry, Physics, Zoölogy, Geology, Physiology and Botany, as given above, and also special lectures on Agriculture. These relate to the study of soils and to applied Economic Zoölogy, according to the following schedule of topics:

Introduction: History of Agriculture, tracing its development through the Jewish, Grecian, Roman, Spanish

and English nations to the formation of agricultural and horticultural societies in the United States, with a brief account of the earlier of these formed within the years from 1785 to 1829 inclusive. The subject is then continued by the discussion of the following topics:

I, Primary Condition of Matter. II, Formation of Soil from Inorganic Elements. III, Source of Organic Matter. IV, Constituents of Plants required by Soil. V, Constituents of Soil in the Mass. VI, Results of Experiments with Unfertilized and with Fertilized Soils. VII, Composition of Fertile Soil. VIII, Cardinal Law in Agriculture. IX, Rotation of Crops. X, Discriminating Application of Fertilizers.

Under the general head of Economic Zoölogy are discussed the distinctive characteristics of the most approved breeds of both neat cattle and horses. Practical instruction is given by the visiting of farms and in obtaining and preserving specimens in Natural History. Taxidermy is also taught when desired by the class.

The above course is arranged in pursuance of the agreement entered into between the Corporation of Brown University and the General Assembly of the State of Rhode Island in January, 1863, by which the University receives the benefits of the Act of Congress approved July 2, 1862, entitled "An Act donating Public Lands to the several States and Territories which may provide Colleges for the Benefit of Agriculture and the Mechanic Arts."

GENERAL INFORMATION

THE UNIVERSITY EXTENSION

PROFESSOR WILFRED H. MUNRO, DIRECTOR

The object of the University Extension is to afford the benefits of University teaching to those who cannot attend the University. The aim of each Lecturer is to make his course of twelve weekly lectures cover about the same ground that a college class would go over in the same time. The teaching scheme comprises lectures, class work, essays, etc. An examination is held at the end of each course, and certificates are awarded to those who pass the examinations.

Lecture courses are given in any branch of study for which there is a sufficient popular demand, in any place easily accessible from Providence. The work appeals especially to college graduates, women of leisure, business men, and teachers. Literary and social clubs frequently resolve themselves into "Extension Centres." More than twelve hundred persons are studying in the clubs already established.

The University Fee is $100 *for each course of lectures.*

The following lecturers have already engaged in the work:

PRESIDENT E. B. ANDREWS—The Rise of the American Constitution	Providence.
PROFESSOR W. W. BAILEY—Botany	Providence, Pawtucket.
MR. J. L. BENNETT—Agricultural Botany	New Bedford, Mass.
PROFESSOR H. C. BUMPUS—Zoölogy	Providence, R. I. Normal School.
PROFESSOR C. V. CHAPIN—Physiology	Newport.

Professor H. B. Gardner—Political Economy	Providence.
Professor Courtney Langdon—English Literature	Olneyville, Woonsocket.
Professor J. M. Manly—English Literature.	Attleboro', Mass., Pawtucket, Providence.
Mr. W. D. Mount—Practical Physics	Providence, Woonsocket.
Professor W. H. Munro—General History	Pawtucket.
Mr. L. F. Snow—English Literature	N. Attleboro', Mass.
Mr. A. T. Swift—German Literature	Pawtucket.
Professor Winslow Upton—Astronomy	Providence.
Professor Alonzo Williams—German Literature	Pawtucket.
Professor G. G. Wilson—Constitutional History	Bristol, Newport, Warren, Wickford.
Miss Mary C. Wheeler—Art and Architecture	Providence.

All communications respecting the Extension work should be addressed to the Director, Brown University, Providence.

EXAMINATIONS FOR WOMEN

While the University has not found it feasible to open to women its courses of instruction, it engages to examine women in any of the studies covered by its courses or required for admission to these courses. The conditions of these examinations are as follows :

Young women may take entrance examinations at the same times and places and under the same conditions as young men. See pages 30–37 inclusive. But candidates may present certificates in place of entrance examinations, subject to the same conditions which apply to young men.

All women's examinations in college studies are to be taken at the College, none elsewhere.

To be admitted to advanced examinations, candidates must have passed all entrance examinations as well as all examinations which cover the work of previous terms.

The subjects for women's examinations, when not identical with those in the courses of instruction given in College, in all cases closely correspond to them.

For an entire set of entrance examinations or of examinations in college studies each candidate pays ten dollars. For any extra examinations the fee is as nearly as possible at the rate of twenty dollars per set. See Index, under "Expenses."

Reports of proficiency are given after all examinations. Upon the satisfactory completion of any course of study, candidates receive certificates of their attainments.

Competent instruction for women in most of the branches taught in the University can easily be obtained in the City of Providence. The President of the University is glad to assist in securing this for any who may apply to him.

THE UNIVERSITY LIBRARY

The University Library dates from the year 1767, when the Rev. Morgan Edwards collected books for it in England. In 1843, when the Library catalogue was printed, and soon after the removal of the Library from University Hall to Manning Hall, it contained ten thousand volumes. In 1878, the date of its location in the new Library Building, it contained forty-eight thousand volumes. It now numbers seventy-one thousand volumes and upwards of twenty thousand unbound pamphlets.

Nearly all the volumes are well bound and many of them are rare and costly. A large portion of them have been carefully selected from year to year with special reference to the wants of professors and students, to aid in literary, scientific, and historical research. The books are arranged in alcoves according to subjects, and free access is allowed to the shelves. Upon the tables in the centre of the building are placed recent purchases and gifts, with the standard periodicals, American and foreign, relating to the different departments of study. Behind them, conveniently arranged, are books of reference.

The Library funds amount to fifty-seven thousand dollars. Of this sum ten thousand dollars is a bequest from the late Professor Gammell, for the purchase of books relating to the history of the United States. Ten thousand dollars constitute the Olney Fund, for the purchase of botanical books and plants. Ten thousand dollars constitute the Diman Memorial Fund, for the purchase of works on mediaeval and modern history. The balance is called the Library Fund proper. To this the Hon. Nicholas Brown contributed ten thousand dollars. It also includes a bequest of five hundred dollars from the late President Wayland, and one of one thousand dollars from the late Albert J. Jones.

The Library is open in term time *every week-day except Saturday, from* 10 *to* 4; *on Saturdays from* 10 *to* 1; during vacations on Saturdays only. The central part of the Library is open also from 7 to 10 every week-day evening except Saturday; not, however, for the drawing and return of books, but for reading, consultation and research.

The use of the Library is entirely free to the public, except in reference to the withdrawal of books. Upon this the rules are as follows:

Members of the Corporation and of the Faculty, graduates of the University residing in Providence, and also

residents of Providence who have contributed five hundred dollars or more to the funds of the University, enjoy the privilege without charge. The Library Committee can grant the privilege to others, but by vote of the Corporation persons not exempted in any of the above ways, including students, pay therefor the sum of five dollars each, per annum.

The following is a list of donors to the Library, from October 1, 1890, to October 1, 1891, the donor's residence or location being Providence, unless otherwise indicated:

Dr. Samuel W. Abbott, Wakefield, Mass.; Hon. Nelson W. Aldrich, U. S. Senate; Hon. Willard S. Allen, East Boston; American Academy of Arts and Sciences; American Antiquarian Society; American Association for the Advancement of Science; American Baptist Missionary Union; American Bankers' Association; American Board of Commissioners for Foreign Missions; American Orthopedic Association; American Pharmaceutical Association; American Philosophical Society; President E. B. Andrews; Prof. John H. Appleton; Joseph N. Ashton, Salem, Mass.; Association of Wool Manufacturers; William W. Backus, Hartford, Ct.; William R. Bagnall, Middletown, Ct.; Nicholas Bailies, Des Moines, Iowa; Mrs. Isabel C. Barrows, Boston; Bell Street Chapel, Providence; Ira Berry, Portland, Me.; Frank E. Bliss, Brooklyn, N. Y.; Rev. Dr. George D. Boardman, Philadelphia; Albert S. Bolles, Harrisburg, Pa.; Boston Public Library; City Government, Boston; Brown Magazine Board, '91; Dr. Samuel L. Caldwell, Colorado Springs; William E. Caldwell, New York City; Department of Agriculture, Canada; Judge George M. Carpenter; Prof. Charles V. Chapin; William E. Clarke; Lieut.-Com. R. Clover, Washington; Connecticut Medical Society; Mrs. Samuel S. Cox, Washington; Hon. William E. Curtis, Washington; Rev. Dr. Robert N. Cust, London; William R. Cutter, Woburn, Mass.; James H. Dodge, Boston; Dr. William J. Dorman, Philadelphia; Henry T. Drowne, New York City; William Eames, New York City; Samuel C. Eastman, Concord, N. H.; Rev. Dr. Richard Eddy; Thomas H. Edsall, Colorado Springs; Rev. A. W. Fiske, Concord, N. H.; Prof. H. B. Gardner; Geological and Natural History Survey, Canada; Alfred E. Giles, Hyde Park, Mass.; Glasgow University; Dr. John M. Gould, Boston; Arnold Green, Providence; Dr. Samuel A. Green, Boston; William B. Greene, New York City; Rev. Dr. W. E. Griffis, Boston; Librarian Reuben A. Guild; Librarian M. R. Hamilton, Trenton, N. J.; George W. Hammond, Yarmouthville, Me.; Prof. Albert Harkness; Mr. M. Joseph Harson; First Baptist Church, Hartford; Harvard College Astronomical Observatory; Harvard University; Hon. Rowland Hazard, Peace Dale; Col. John Milton Hay, Washington; Ex-Mayor William S. Hay-

ward; D. C. Heath & Co., Boston; Hon. Nathaniel P. Hill, Colorado Springs; R. B. Hilton, Jacksonville, Florida; Ulrico Hoepli, Milan; Clay W. Holmes, Elmira, N. Y.; Hon. Henry Howard; James F. Hunnewell, Charlestown, Mass.; Prof. J. F. Jameson; Jersey City Board of Education; Walter K. Jewett, Fitchburg, Mass.; Abby A. Judson, Minneapolis; Dr. William W. Keen, Philadelphia; Alfred G. Langley, Newport; Edward O. Leech, Washington; *Legacion de la Repub. de Costa Rica;* Adolph Leue, Columbus, Ohio; Hon. Frederick W. Lincoln, Boston; President Seth Low, New York City; E. O. McCreedy, Albany; Edwin D. McGuinness; Massachusetts Historical Society; Massachusetts State Board of Health; Massachusetts Bureau of Statistics; Massachusetts State Board of Charities; Massachusetts State Library; University of Melbourne, Australia; T. C. Mendenhall, Washington; Frederick A. Mitchell, East Orange, N. J.; National Civil Service Reform League; Nautical Almanac, Washington; Rev. George W. Nichols, Long Island; Northern Pacific Railroad; Prof. A. S. Packard; Frederick Paine, Minneapolis; T. S. Parvin, Cedar Rapids, Iowa; Prof. John Peirce, Providence; James Pott & Co., New York City; Providence City Government; Providence Board of Trade; Record Commission, Boston; Rhode Island Secretary of State; E. S. Rhodes; Royal Institution of Great Britain; Royal Society of Canada; Hon. J. M. Rusk, Washington; Rev. Professor L. Sears; Dr. A. R. C. Selwyn, Ottawa; Dennis H. Sheahan; Mrs. T. P. Shepard; Rev. Dr. Daniel Shepardson, Granville, Ohio; Scott A. Smith; Smithsonian Institution, Washington; Hon. Thomas B. Stockwell, Commissioner of Schools; George F. Stone, Chicago; Surgeon-General's Office, Washington; American Swedenborg Printing and Publishing Company; President James M. Taylor, Poughkeepsie; Estate of Rev. D. H. Taylor, Newton, Mass.; Dr. Samuel Thurber, Boston; William Trelease, St. Louis; Union League Club, New York; Publisher of *Unitarian Review;* Wheelock G. Veasey, Washington; Walter B. Vincent; Mrs. Francis J. Vinton; Horace G. Wadlin, Boston; Washington—Department of the Interior, Treasury Department, Departments of State, War, Navy, Agriculture, Bureau of Navigation, Commissioner of Labor, Commission of Fish and Fisheries, Bureau of Education, Bureau of American Republics, Chief of Engineers, Naval Observatory, National Museum, Smithsonian Institution, Surgeon-General's Office, Life Saving Service, etc.; Hon. William Whiting, Amherst, Mass.; William H. Whitmore, Boston; Dr. N. E. Wordin, Bridgeport, Ct.; *The World*, New York City; Association of Wool Manufacturers, Boston; Hon. Carroll D. Wright, Boston.

OTHER LIBRARY FACILITIES

Besides the University Library, the five collections of books named below are practically at the service of students in Brown University, comprising in all, including

the University Library, two hundred and sixteen thousand volumes, exclusive of pamphlets and manuscripts. These six collections combined afford library privileges such as can be found at but very few seats of learning in this country. The first three libraries named are entirely free, and the other two are available without difficulty.

The Providence Public Library

All students of Brown University are allowed, upon the same conditions as other residents of the city, to make use of the excellent and well administered Public Library of Providence, containing above 57,000 volumes. It is situated at 73 Snow Street, and is open evenings, Sunday evenings included. It is also open Sunday afternoons. The Librarian, a graduate of Brown University, prepares lists of references for guidance in the regular essay work of the University. He is also glad to be consulted with respect to books on other departments of University teaching. On the history of Slavery and of the Civil War this is one of the richest literary collections in America.

The State Law Library

This collection of about 16,000 volumes may be consulted in the Providence County Court House, corner of Benefit and College Streets, but a few steps from the University. It is accessible to all students, and, for certain lines of University study, is invaluable.

The Library of the Rhode Island Historical Society

The Cabinet of the Rhode Island Historical Society, which has recently undergone extensive enlargement, is on Waterman Street, next door to the University Library Building. The Library of the Society comprises about

15,000 bound volumes, and between 30,000 and 40,000 valuable unbound volumes and pamphlets. It is accessible, free of charge, to all students, as to all residents of Rhode Island, and offers especial facilities for thorough research not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history.

The Library of the Providence Athenæum

This collection of 52,000 well-chosen volumes, increasing at the rate of over 1,000 yearly, is also situated very near the University. Connected with it is an admirable reading-room, containing a large and choice assortment of papers and periodicals, American and foreign. This Library is the property of a private corporation; but many students, as well as nearly all the members of the Faculty, hold shares, while, for purposes of special research, the volumes of the Library are freely placed at the disposal of suitable persons, not owners of stock.

The Library of the Rhode Island Medical Association

This is a collection of several thousand books and pamphlets upon medicine, surgery, and kindred branches. Many of them relate to Physiology, Physiological Psychology, Hygiene, and other subjects pursued in the University. Special arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This Library is in the Arnold Block, 54 North Main Street. It is open every afternoon from 2 to 6 o'clock.

THE SEARS READING ROOM

The Sears Reading Room Association of students occupies a large, commodious and well-lighted room, conveniently situated on the first floor of University Hall, fitted up especially for this use, and supplied with all the most important newspapers, daily and weekly, as well as with a variety of the more popular periodicals. The learned and scientific reviews may be consulted in the University Library.

THE BROWN UNIVERSITY LECTURE ASSOCIATION

For three winters past the organization known as the Brown University Historical and Economic Association has sustained courses of free public lectures relating to topics in the fields of history, political economy and political science. During the winter of 1890–'91, two courses were given, the first on *The History of Political Parties in the United States*, the second on *Money*. The lecturers in the first course were: Hon. Andrew D. White, LL. D., Ex-President of Cornell University; Professor Anson D. Morse of Amherst College; Professor J. F. Jameson of Brown University; and Professor Charles H. Levermore of the Massachusetts Institute of Technology. In the second course lectures were given by the President of the University; Professor F. W. Taussig, of Harvard University; Mr. Willard C. Fisher, Instructor in Brown University, and Professor J. Laurence Laughlin, of Cornell University.

This Association has now broadened its scope, intending hereafter to sustain lecture courses not only in history,

political economy and political science, but in all those departments of knowledge which fall within the sphere of a University. Its name has accordingly been changed to "The Brown University Lecture Association." During the season of 1891–'92, beginning November 30th, the following lectures and courses are offered to the public:

Professor A. D. F. Hamlin, of the Columbia College School of Mines, will give four illustrated lectures on "Styles in Architecture, their Development since the Christian Era." Two lectures are promised by Professor Sears, upon "The Oratory of the Greek Fathers," and "The Oratory of the Latin Fathers." Professor Josiah Royce, of Harvard University, will give six lectures on "Illustrations of the Spirit of Modern Philosophy." Dr. Walter Damrosch will give three lectures, with the piano, interpreting the works to be performed at his concerts in Providence. Professor Charles Sprague Smith, formerly of Columbia College, is to give four lectures, two of which are to be illustrated, upon "Early Norse Poetry and the Icelandic Sagas." The Rev. Dr. Wm. Chauncy Langdon gives a lecture on "The Present Conditions and Probable Future of the Papacy." Dr. Albert Shaw, of New York City, will give four lectures on "Modern Municipalities." Four lectures are to be given by Professor C. T. Winchester, of Wesleyan University, on "Four Victorian Writers." Two lectures may be expected from Professor Gardner, on topics connected with Political Economy.

These lectures are in all cases free to the public, who are most cordially invited to attend. Persons desiring further information, or wishing to become sustaining members of the Association, are requested to communicate with the Secretary, Professor J. F. Jameson, 1 College Court.

SPECIAL LECTURES ON LAW

During the second term of the Academic year 1890–'91, the following course of Lectures was delivered at the University, mainly for the benefit of the Senior Class.

Hon. Charles Matteson discussed "Common Law in America;" Joseph C. Ely, Esq., "The Essential Nature of the Common Law;" Arthur L. Brown, Esq., "Statutory Law;" Amasa M. Eaton, Esq., "Equity;" J. C. B. Woods, Esq, "The Law of Real Property;" Warren R. Perce, Esq., "The Law of Copyrights and Patents;" Edward D. Bassett, Esq., "The Law of Contracts;" William W. Douglas, Esq., "Admiralty Law;" John F. Lonsdale, Esq., "Wills;" Hon. Augustus S. Miller, "Jury Trial;" Hon. John H. Stiness, "State Courts and Procedure;" Hon. George M. Carpenter, "Federal Courts and Procedure;" Charles P. Robinson, Esq., "Debt of the Common to the Civil Law."

It is expected that a similar course will be offered each year.

ART COLLECTIONS

PORTRAITS

Through the liberalty of its friends the University has been presented with a large number of portraits. Most of them are hung in Sayles Hall, the rest in apartments of the other University buildings. The collection includes portraits of benefactors of the University, of some of its former officers, and of other men distinguished in the earlier or the more recent history of Rhode Island. It has

been greatly enriched in late years by portraits presented through a committee appointed by the Alumni, "for the purpose of procuring and placing within the walls of Brown University, the portraits of her Presidents, Professors, distinguished graduates and benefactors."

THE MUSEUM OF CLASSICAL ARCHÆOLOGY

IN MANNING HALL

By the further generosity of its friends the University has been enabled to institute a Museum of Classical Archæology. A collection of plaster casts from works of classical art has been placed in Room No. 1, Manning Hall, which has been appropriately arranged and decorated for this purpose. Most of the casts are the gift of a single alumnus, Henry Kirke Porter, Esq., of Pittsburg, Pa., a member of the class of 1860. These were all purchased directly of the best European manufacturers by the late Professor Lincoln, as Mr. Porter's chosen agent. They are of rare excellence, and of great value for illustrating ancient history, biography and art.

Seventeen years ago the Class of 1868 began to raise a fund for the same purpose, and in 1888 gave to the University for the Museum an excellent cast of the Hermes with the infant Dionysos, by Praxiteles. At the same time it paid to the University Treasurer the sum of $1,000, the income of which will be spent in purchasing casts or other apparatus to be used in the work of instruction in Classical Archæology.

A reduced copy in marble of the portrait statue of Aeschines, which was given to the University by the late Hon. Charles Smith Bradley, LL. D., of the Class of 1838, is in the Museum. A set of casts from the frieze of the Parthenon at Athens has recently been added to the collection.

The casts are used to illustrate the teaching of Classical Archæology, and to aid general instruction in the classics. Every effort is used to make the Museum helpful to students of drawing.

It is earnestly desired that graduates and friends of the University take part in increasing the number of casts. A valuable gift of this kind can be made with small expenditure. The gift can be made to the best advantage in money, as the University has better facilities for purchasing casts than most private persons. The Curator, Professor W. C. Poland, gladly corresponds with any who wish to help in this way. He also invites those who wish access to the Museum to apply to him, as the desire is to render the collection as widely useful as possible.

The Museum is open to students and to the public on Wednesdays from 3 to 5 o'clock P. M., and on Saturdays from 10 to 12 o'clock A. M.

THE MUSEUMS OF ZOÖLOGY AND ANTHROPOLOGY

In Rhode Island Hall

The Jenks Museum of Zoölogy

This Museum is arranged according to the more modern methods of classification, beginning with the lower invertebrates and ending with the mammals. It includes materials not only for general work but for special investigation. There have been placed on exhibition in the gallery, separate from the synoptic collections below, local collections representing the fauna of Rhode Island. Students giving special attention to Zoölogy are allowed to take from the cases such specimens as they may need, the aim always being to make the Museum not an exhibition room only but a place for work.

The Museum of Anthropology

Properly to house and exhibit the rapidly growing stores of anthropological matter, a special hall contiguous to the Museum of Zoölogy has been fitted up during the last year, permitting a synoptic arrangement of the contents and otherwise greatly facilitating study. This work has been done under the superintendence and entirely at the cost of Professor John Whipple Potter Jenks, A. M., who has served so long and faithfully as the Curator of the original Museum. This new Museum contains a great number of rare implements from foreign countries, as well as many once the property of the aboriginal races in our own land. Prehistoric Anthropology is well illustrated by implements of stone, bone and bronze, with casts, models and photographs, either collected or purchased in 1889 by Professor A. S. Packard, Ph. D. They represent France, Italy, England, and Switzerland, materials from the Lake Dwellings of Switzerland being especially numerous.

RELIGIOUS CULTURE

This is deemed to be of first importance. The public duties of every day begin with religious exercises in the University Chapel. All students are also expected to attend divine worship on Sunday, each one reporting to the President at the beginning of the year what church he will attend. The Young Men's Christian Association has meetings on Wednesday evenings during term time, to which all students are welcome. The Bishop Seabury Association holds a service every Friday afternoon.

In addition, each class has its own meeting for prayer and conference on Friday afternoons, and a voluntary Bible

Class for students, conducted by the President, meets on Sunday mornings at half-past nine.

PHYSICAL CULTURE

The Lyman Gymnasium, just completed and equipped, is provided with a main hall containing all the most useful gymnastic appliances, including a running track in the gallery. Adjoining are the locker rooms, with capacity for a much larger number of students than are now enrolled. On the same floor is also a professors' room and a room for anthropometry. On the floor above are two large, well-lighted rooms, one of which is designed for a music room, the other for a billiard room. In the basement are two bowling alleys, eight rowing machines, the base-ball cage, a sparring room, and a room to be used by the base-ball team. A space has been left for a swimming tank.

Every student is examined physically, measured and provided with a chart showing his development and condition. Special exercise based on this examination is prescribed for each, in addition to regular class work. Except during the early fall and late spring, there is in the Gymnasium a regular class drill for each class one half hour daily four days each week. In this drill the Freshmen are instructed in the use of Indian clubs, the Sophomores are taught to box, the Juniors to use the "single stick," and the Seniors to fence. The remainder of the four hours per week required by the Corporation is devoted to special exercise on various sorts of apparatus. No student will be excused from gymnasium work except for physical cause. Every effort is made to encourage interest in out-door sports, for it is believed that exercise in the open air is of primary im-

portance. The Instructor devotes a considerable part of his time, when the season is suitable, to directing out-door athletics of all kinds.

EXAMINATIONS, STANDING AND HONORS

SEMI-ANNUAL EXAMINATIONS

Examinations of all the classes are held at the close of each term, or at the completion of definite portions of work in the several studies. A student cannot be admitted to the examination in any study unless his term standing in that study is at least fifty per cent. of the maximum. If excluded for this reason he is considered delinquent in the study. Also if a student is examined in a given study and fails to receive a mark of at least fifty per cent., he is considered delinquent in that study, and must prepare himself for a subsequent examination.

Any student who, either from failure at examination or because his term standing is below fifty per cent., is delinquent in three or more studies at the close of the term, is not allowed to continue the studies of his class.

A student delinquent in any study of the first or the second term must be specially examined before the middle of the term next succeeding that for which he is deficient, at a time appointed by the instructor. Students delinquent at the close of an academic year must be examined on the Monday or Tuesday immediately preceding the beginning of the next academic year (for 1892 on September 19 and 20). The schedule for these delinquent examinations will be posted in the Registrar's office on Monday morning. Candidates for a degree delinquent in the

studies of a given year, unless, for worthy cause, they are specially excused by the Faculty, cannot begin the studies of the next year until they have passed successfully the examinations required.

A student delinquent in any study who fails to obtain fifty per cent. on special examination, forfeits his connection with his class, and, before he is recommended for a degree, must study the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

ATTENDANCE ON COLLEGE EXERCISES

Each student is expected to attend every exercise in the several studies to which he is assigned, but a limited number of absences is allowed, for which a student, unavoidably prevented from attending his classes, need render no excuse. The number allowed each term is twelve from chapel services and twelve from lectures or recitations. An unexcused tardiness is regarded as an absence. If a student is absent from the class-room of any officer during a term a number of times which is greater than the number of exercises per week allotted to that study, he is required to pass a special examination upon the work done during such additional absence, and may also be assigned extra work. If a student is absent a number of times greater than that allowed, he is subject to college discipline. The term reports sent to the parent or guardian of each student contain the record of all absences.

REPORTS OF PROFICIENCY

A careful record is kept of the proficiency of every student of the College in his several studies. At the close of a term the standing of each student is determined by so combining his term standing with the result of the

examination in each study that the term standing shall count for three-fourths of the final result. A report is sent to the parent or guardian of every student, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies if such deficiency exists.

APPOINTMENTS FOR COMMENCEMENT

These are made as follows : Every member of the Senior Class is allowed to present for Commencement an oration or a thesis. From the number of those presented the Professor of Rhetoric, on or before the second Wednesday in April, selects at least one-half of both the orations and the theses, and submits them to a committee consisting of the President of the University, the Professor of Rhetoric and a third member elected each year by the Faculty. This committee selects from the orations laid before them such, not exceeding ten in number, as in their judgment have sufficient merit to represent the University with credit at Commencement, regard being had to the oratorical ability of the several writers as determined by their attainments in elocution. The committee select also from the theses such as they deem deserving of particular mention, with reference to the special proficiency shown by the writers in the departments of study which they treat, and to excellence in composition. The number of theses accepted cannot exceed that of the accepted orations. The names of the writers of the theses accepted are printed in the Commencement programme.

SPECIAL HONORS

Opportunity to study for honors is open to members of all classes, but only in connection with courses determined upon by the Faculty. Early in each academic year the

Faculty prepares a list of such courses, a copy of which is kept by the Registrar for consultation by the students.

The extra work required in order to secure honors occupies the equivalent of four hours a week during the year, and this, whether the course in connection with which the study for honors is carried on extends through two or three terms.

Candidacy for honors is subject to the following conditions: 1 No student is allowed to become a candidate who is delinquent in any study or whose average mark in all the studies for the year preceding his application for candidacy has been less than 8.5, and no student is allowed to continue a candidate if at the end of any term his average mark in all his studies for that term has fallen below 8.5. 2 No student can become a candidate who is taking two or more extra studies. No student who is taking a single extra study can be a candidate for more than one honor. No student can be a candidate for more than two honors at the same time. *Provided, however*, that any student whose average standing in all his studies for the year preceding his application for enrolment as a candidate has been 9.5 or over, may become a candidate for three honors at the same time; but the candidacy for one of the three honors ceases if during any term the candidate's average standing in all his studies for that term falls below 9.5. 3 At the end of any academic year permission may be granted a student to study for one honor during the summer vacation; but this permission can not be granted to students who are already candidates for one or more honors, unless the work for such honor or honors be completed by Commencement day. 4 By leave of the Faculty, a student may at any time withdraw from candidacy for honors.

Application for enrolment as a candidate for honors

must be made to the Registrar, on a blank furnished by him for that purpose. Before the application will be received, the applicant must obtain the approval of the instructor in charge of the course specified, attested by his signature on the application blank. In the case of courses beginning the first term, application must be made on or before October 20th; in the case of courses beginning the second term, on or before January 20th; and in the case of courses beginning the third term, on or before May 1st.

When a class graduates the names of those of its members who have obtained honors during their college course, together with the years and subjects in which such honors have been awarded, are printed on the commencement programme.

GRADUATE DEGREES

I, MASTER OF ARTS

This degree is conferred under the following conditions: 1 The candidate, already a Bachelor of Arts or of Philosophy, must have completed a thorough course, approved by the Faculty, and the Board of Fellows, of liberal graduate study, sufficient in amount to constitute a fifth year of college work, and have passed satisfactory examinations thereupon. 2 By continuous residence at College, candidates fulfilling the above conditions, may receive the degree in one year from graduation, but in cases of partial or entire non-residence, the degree will not be conferred under two years from graduation. 3 Every candidate for the degree is charged the sum of five dollars at his registration

as such candidate, and the same fees while in residence as are paid by undergraduates. When the degree is conferred, resident candidates pay the additional sum of ten dollars, non-residents the sum of twenty dollars. See Index, under "Expenses."

II, DOCTOR OF PHILOSOPHY

This degree is conferred under the following conditions: The candidate must be a Bachelor of Arts or of Philosophy. He must have resided at the University at least two years after graduation, pursuing a systematic course of study approved by the Faculty and the Board of Fellows, and sustaining satisfactory examinations on the same, concluding his course with a thesis giving evidence of high scholarship and of special excellence in the studies pursued. To receive this degree, one must further possess a good knowledge of Latin, French, and German, unless for special reasons excused from one or more of these languages.

Every candidate for the degree will be charged the sum of five dollars on announcing his candidacy, unless he has already paid this fee as candidate for the degree of Master of Arts. The fee for instruction will be the same as to undergraduates; that for the degree, ten dollars. See Index, under "Expenses."

Any person wishing to become a candidate for either of the above degrees should communicate with the President of the University, naming the departments in which he desires to study. Two courses at least are usually required, a Major and a Minor. The communication is laid before the head of the department, who, in correspondence with the applicant, arranges the work in detail.

A student desiring to receive, at any given Commencement, the degree of Master of Arts after one year's residence, must announce his wish to the President, in writing,

on or before the 15th of October of the year preceding that Commencement, and must name in his application the department or departments of study in which he desires to be examined.

Every student, also, who desires to receive, at any given Commencement, the degree of Master of Arts after two or more years of non-resident study, must make similar announcement on or before the 15th of October of the year preceding that Commencement.

A student desiring to receive, at any given Commencement, the degree of Doctor of Philosophy, must make similar announcement on or before the 15th of October of the second year preceding that Commencement. A year of work for the degree of Master of Arts, unless performed in residence, cannot be counted as a year of work for the higher degree ; and is not necessarily so counted even when performed in residence.

The examinations of all candidates desiring to receive the degree of Master of Arts or of Doctor of Philosophy at the Commencement of any given year, must be completed before the first of June in that year. The dissertations of candidates for the degree of Doctor of Philosophy must be presented to the Faculty in type-writer copy or in print, before the first of May of that year ; and the approval of such dissertation by the Faculty is essential to the attainment of the degree.

EXPENSES

Regular University Dues

The yearly dues to the University treasury are as follows :

	LOWEST	HIGHEST
Tuition, ...	$110 00	$110 00
Rent, single room [see page 132], . . .	25 00	87 00
Rent, suite [see page 132], ...	85 00	155 00
General incidentals for all students, . .	33 00	33 00
Extra incidentals for residents in College, . .	30 00	44 00

The general incidental expenses are for the printing of programmes, examination papers, and the like, the use of the University Library and Gymnasium, heat for these and also for the halls and recitation rooms, and the hire of servants to care for the same. The extra incidental expenses are for heat and servants' hire in the dormitories. The charge for incidentals in both kinds is fixed as nearly as possible at the actual amount of these expenses on an average of several years.

Each room or suite in the dormitories has its gas meter and occupants are charged for the actual amount of gas which they consume.

Every undergraduate candidate for a degree pays, upon admission to the University, a matriculation fee of $5.00.

Every member of the Senior Class pays upon graduation a fee of $8.00 for his diploma and to cover other extra expenses connected with graduation.

Special University Dues

1, *In Chemistry*

Candidates for a University degree who take Course 1, 2, or 3 in Chemistry are charged as follows: for Course 1, $1.00; for Course 2, $2.00; for Course 3, $3.00. They also have a special charge for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $2.00 per term.

Special students who take no University studies except Courses 1, 2, 3, in Chemistry, pay for these $10.00 per term.

In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $2.00 per term.

Students who are candidates for a University degree and take advanced courses in Analytical Chemistry are charged per term, in addition to the Regular University Dues, the sum of $10.00 for a three-hour course in the Laboratory and $20.00 for a six-hour course in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $3.00 per term.

Special students who take no University studies except advanced courses in Analytical Chemistry are charged varying sums according to the courses taken. In an individual case, the charge is at the rate of $4.00 per term for one hour per week of actual attendance in the Chemical Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $5.00 per term.

Special students engaging places in the Chemical Laboratory must each pay for a full term. No deductions are made on account of absence.

2, *In Physics*

Candidates for a degree who study in the Physical Laboratory pay, in addition to the Regular University Dues, a fee of $5 00 per term.

Candidates for a degree who do shop work pay, in addition to the Regular University Dues, a fee of $10.00 per term.

Special students who take no studies except in the Workshop pay at the rate of $4.00 per term for one hour per week of actual attendance in the shop.

3, *In Botany*

Students who take Courses 1, 2, 3, in Botany pay, in addition to the Regular University Dues, a fee of $1.00 per term.

Students taking Courses 4, 5, 6, pay, in addition to the Regular Dues, a fee of $2.00 per term.

4, *In Other Studies*

Special students in the University, except as just specified under Chemistry, Physics, and Botany, as a rule pay full tuition and incidentals, but proportionally less if admitted to courses of less than fifteen hours of class attendance a week. If occupying rooms they of course pay the same rent as candidates for a degree.

5, *For Women's Examinations*

For an entire set of entrance examinations or of examinations in college studies each candidate pays Ten Dollars. For any special or extra examinations the fee is as nearly as possible at the rate of Twenty Dollars per set. See page 106.

6, *For Graduate Students*

Graduate students in residence at the University, whether candidates for degrees or not, pay the same regular and special University dues as undergraduates. See above.

Each candidate for the degree of Master of Arts or for that of Doctor of Philosophy, at registration as such candidate, pays, in addition to the regular and to all other special University dues, the sum of Five Dollars.

A candidate for the degree of Master of Arts who, without remitting his studies, becomes a candidate for the degree of Doctor of Philosophy, is charged nothing for the new registration.

Each candidate who is recommended for the degree of Master of Arts after non-resident study pays, before receiving the degree, the additional sum of Twenty Dollars.

Each candidate recommended for either of these degrees on the basis of study in residence pays, before receiving the degree, the sum of Ten Dollars.

General Expenses

The total expenses of students per year will vary, of course, according to their habits, tastes, and means, some students expending more than double, even more than treble, the amounts of others.

Subjoined are figures denoting the actual yearly expenses, including dues to the University, of several recent students, selected at random. In the case of one of these $250 paid for everything but board; in that of another $185 did the same. Two gentlemen kept their total expenditure, including board and all else save clothing, down to the low sum of $265 apiece. Two others needed for this $425, each, one year, $435 and $450 the next. Another required $412.87, another $475. Still another spent $510 in his Freshman year, $466 in his Sophomore year, both sums, however, including unusual amounts for travelling. So far as ascertained, the largest outlay for college expenses in recent years is reported by a member of the Class of 1890, whose Freshman year cost him $890, his Sophomore year $730, his Junior year $725.

Board is not furnished at the College, but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to students.

The usual cost of board is at present from $3.00 to $5.00 per week. A majority of the students do not pay over $3.50, and good board can be obtained for $3.00. Board

with furnished rooms, in private families, may be had at from $5.00 to $10.00 per week.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, by teaching in evening schools, and in other occupations not inconsistent with their duties.

Term bills are due, and must be paid, or their payment secured, on their presentation at the beginning of each term.

PRICES OF ROOMS AND SUITES

There are in the three dormitories 78 single rooms, and 22 suites: 17 of the suites having 3 rooms each, 2 sleeping rooms and a study, and 5 of them 2 rooms each. The following conspectus gives the rent of each room in the University, and the number at each figure:

All the dormitories are supplied with steam heat, students paying therefor according to the size and number of their rooms. The highest price [per suite] is $20, the lowest [single rooms] $10. The charge for service is $15 for each single room, for suites $18 to $24, according to the size and number of the rooms.

Directory to the Dormitories

Slater Hall, South Division,	Rooms,	1 to 9.
Slater Hall, North Division,	"	10 to 20.
University Hall, South Division,	"	1 to 34.
University Hall, North Division,	"	35 to 61.
Hope College, South Division,	"	1 to 16.
Hope College, Middle Division,	"	17 to 32.
Hope College, North Division,	"	33 to 48.

Rent	Slater Hall.	University Hall	Hope College *
$25.....	Nos. 13 and 16.....	.....	.....
35.....	Nos. 9 and 18	.....	.....
50.....	Nos. 8, 19.....	Nos. 32, 33, 59 and 60...	.....
55.....	.....	" 16, 25, 30, 31, 46, 52, 53, 54, 55....	.....
57.....	....	.....	Nos. 16, 29, 32, 45.
60... .	.....	Nos. 21, 22, 47, 48.....	" 12, 13, 15, 25, 28, 30, 31, 41, 46, 47.
66.....	.....	. . ..	" 9, 11, 14, 26, 27, 42, 48.
70. ...	.....	Nos. 12, 13, 40, 41, 51, 58	
72.....	....	.....	" 4, 8, 10. 17, 20, 21, 24, 33, 37.
75.....	No. 20 (suite of 2).....	Nos. 34, 36, 27.....	" 1, 3 5, 7. 18, 19, 22, 23. 34, 38. 43, 44.
81.....	.....	.....	" 2, 6.
85.....	No. 7 (suite of 2)....	.....	
87.....	.....	....	" 35, 36, 39, 40.
100.....	No. 2 (suite of 2).....	.....	
120.....	....	No. 57 (suite of 3).....	
130.....	Nos. 6, 15 (suites of 3 each).	Nos 28–29 (suite of 3)..	
135.....	" 10 11, 17 (suites of 3 each).....	" 17–18 (suite of 2).. " 49–50 (suite of 3).. " 44–45 (suite of 2)..	
140. ..	" 4, 12, 14 (suites of 3 each).....	.....	
145.....	" 1, 5 (suites of 3 each).	" 19–20 (suite of 3).. " 42–43 (suite of 3)..	
155.....	" 3 (suite of 3)..	" 10–11 (suite of 3)..	

* Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.

FELLOWSHIPS

The Fellowship of the Grand Army of the Republic

The Grand Army of the Republic, Department of Rhode Island, has donated to the Corporation of Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the Republic Fellowship Fund. It is to be kept as a principal, only the income of it being used. This income is to be applied for the purpose of aiding alumni of Brown University, of acknowledged excellence in scholarship and character, in the pursuit of advanced liberal study, the aim being that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of this Fellowship, when a successor may be appointed for the remainder of the year.

Incumbents of this Fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows, but the descendants of Union Veterans of the Civil War of 1861–'65 are always to be preferred when the other qualifications of candidates are equal. No considerations touching the political or religious preferences of candidates can ever enter into these appointments.

Except as provided above, all appointments to this Fellowship are made for the term of one year; but incumbents of special diligence or ability may be re-appointed. The President of the University is authorized to make for the reception and use of the income from this fund, such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper.

The incumbent of this Fellowship for the year 1891–92 is

Alfred Simpson Taylor, B. P.

The Philadelphia Alumni Fellowship

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

SCHOLARSHIPS

The University has about one hundred scholarships. Sixty-four of them are of one thousand dollars each. The income of these is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum marking.* The one thousand dollar scholarships are as follows, each, unless otherwise indicated, bearing the name of its founder:

The eleven Nicholas Brown Scholarships.
The four University Scholarships.
The President's (Sears) Scholarship.
The Six Alva Woods Scholarships.
The James H. Duncan Scholarship.
The Isaac Davis Scholarship.
The Arnold Whipple Scholarship, founded by Mrs. Arnold Whipple.
The Ephraim Wheaton Scholarship, founded by James Wheaton.
The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.
The Gardner Colby Scholarship.
The Crocker Scholarship, founded by Robert H. and Thomas P. Ives, trustees.
The Clark Scholarship, also founded by the Messrs. Ives.
The Albert Day Scholarship.
The Henry P. Kent Scholarship.
The Romeo Elton Scholarship.
The Five Annie E. Waters Scholarships.
The L. Fairbrother Scholarship, founded by Mrs. L. Fairbrother.
The George Lawton Scholarship.
The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.

The James Y. Smith Scholarship.
The two S. S. Bradford Scholarships.
The Frances R. Arnold Scholarship.
The Cornelia E. Green Scholarship.
The George K. and H. A. Pevear Scholarship.
The Joseph C. Hartshorn Scholarship I.
The Rogers High School Scholarship, founded by William Sanford Rogers.
The James Wheaton Scholarship.
The Charles Thurber Scholarship.
The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.
The Hezekiah S. Chase Scholarship.
The William Bucknell Scholarship.
The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.
The Horatio N. Slater Scholarship.
The Earl P. Mason Scholarship.
The Newport Scholarship, founded by William Sanford Rogers.
The Alexis Caswell Scholarship.
The three (Henry) Jackson Scholarships.
The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.
The Henry Clifford Knight Scholarship, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.
The Thurston Scholarship, founded by Hon. Benjamin F. Thurston.
The Rufus Babcock Scholarship, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, Rev. Rufus Babcock, D. D., of the Class of 1821.

Besides the above scholarships there are others the assignment of which is made subject to special provisions. These are as follows :

The Bartlett Scholarship, of four thousand dollars, founded by Mrs. Elizabeth Slater Bartlett, the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise by studious aims and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarships, of five thousand dollars, founded by Henry R. Glover, "in memory of his father, Samuel Glover, a graduate of the College of the Class of 1808, and of his brother, Samuel Glover, Jr., of the Class of 1839" Assignment is made upon the basis of character and attainments.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars, founded by members of the Class of 1838, and also assigned upon the basis of character and scholarship.

The Joseph Charles Hartshorn Scholarship II, of two thousand dollars, founded by the gentleman whose name it bears.

The George J. Sherman Scholarships I and II, of one thousand dollars each, founded by the gentleman whose name they bear.

The Scholarships of the Department of Agriculture. By resolution of the General Assembly of the STATE OF RHODE ISLAND, the national grant "for the benefit of Agriculture and the Mechanics Arts," was given to Brown University ; and the fund of fifty thousand dollars which has accrued from this grant, is, by agreement on the part of the University, devoted to the education of scholars, each at the rate of seventy-five dollars per annum, to the extent of the entire annual income. Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and the Secretary of State, in conjunction with the President of the University.

AID FUND

This is a fund of several thousand dollars, the income of which is applied, either by loan or by gift, to the assistance of deserving young men of limited means.

PREMIUMS

I, FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums. These are derived from the income of a fund presented to the University by the Rev. Francis Wayland, D. D., while President. They are awarded to those members of the Freshman Class, candidates for the degree of Bachelor of Arts or of Bachelor of Philosophy, who are found upon special examination to have attained the highest excellence in the studies required for admission to College in Greek, Latin, and French. For the highest attainment in each of these several studies a first premium of twenty dollars is awarded; for the next highest, a second premium of ten dollars. An additional second premium in one of these studies is sometimes awarded to such competitor as the examiners consider most deserving.

The most recent award (1891) of these premiums was as follows:

GREEK

The First Premium to Edgar Luther Tinkham, instructed by William T. Peck, A. M., in the Providence High School.

The Second Premium to Fred Davis Aldrich, instructed by D. W. Abercrombie, A. M., Principal of the Worcester Academy.

LATIN

The First Premium to Walter Guyton Cady, instructed by Charles B. Goff, A. M., in the English and Classical School, Providence.

The Second Premium to Henry Elliott Cooper, instructed by William T. Peck, A. M., in the Providence High School.

An Additional Second Premium to Edgar Luther Tinkham, instructed by William T. Peck, A. M., in the Providence High School.

FRENCH

The First Premium to WILLIAM HENRY ATWOOD, instructed by Miss Elizabeth P. Briggs, in the New Bedford, Mass., High School.

The Second Premium to LUCIEN EDWARD TAYLOR, instructed by William T. Peck, A. M., in the Providence High School.

MATHEMATICS

The Hartshorn Premiums. These are derived from the income of a fund of one thousand dollars, presented to the University by JOSEPH C. HARTSHORN, A. M., of the Class of 1841. The income furnishes *three Premiums.*

These are awarded to those members of the Freshman Class who are found, upon examination, to excel in the preparatory mathematical studies.

The last award (1891) of these Premiums was as follows:

The First Premium to DANIEL CHAMPLIN CHACE, prepared in the Providence High School.

The Second Premium to FREDERICK OTIS CLAPP, prepared in the English and Classical School, Providence.

The Third Premium to EDGAR LUTHER TINKHAM, prepared in the Providence High School.

II, FOR EXCELLENCE IN COLLEGE STUDIES

The Carpenter Prizes for Elocution. These are: a First Prize of *sixty* dollars; a Second Prize of *thirty-six* dollars; a Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER, and are awarded annually to the three members of the Sophomore Class to whom are assigned, respectively, the first, the second, and the third rank of excellence in elocution. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class. They may declaim pieces in either prose or verse, selected from English authors. These selections must be approved by the Instructor in Elocution. Competitors are to enter their names with this Instructor not later than the tenth day before the exhibition.

The Committee of Award consists of five members, and is formed as follows: the Professor or the Instructor in Elocution, who is the chairman, two persons elected by the Corporation, also two elected by the Sophomore Class during the first term of the year, it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1891 awarded the prizes as follows:

The First, to LUCIAN SHARPE, JR.

The Second, to WALTER SCOTT REYNOLDS.

The Third, to ARTHUR JOSEPH LLEWELLYN.

The Hicks Prizes for Excellence in Debate. These are two, derived from the income of a fund presented to the University by RATCLIFFE HICKS, of the Class of 1864. They are annually awarded to the two members of the Junior Class who in the judgment of a carefully selected committee, display the greatest ability in debate. The contest is held on the evening before Class Day.

For the year 1891 the first prize was awarded to

BERTRAM BLAISDELL,

and the second to

JOHN HATHAWAY LINDSEY.

The Carpenter Premiums. These are two, of sixty dollars each, derived from the income of a fund established by THOMAS CARPENTER and LYDIA CARPENTER.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life: ability, character, and attainment."

For the year 1890–'91 the Carpenter Premiums were awarded to:

ERNEST HENRY JOHNSON

and

GERALD BIRNEY SMITH.

The Howell Premium. This fund, amounting to one thousand dollars, was presented to the University by the late GAMALIEL LYMAN DWIGHT. The income is given, at the *close of the first half of the Senior year*, to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for this Premium, a student must select at least one of the elective studies in Pure or Applied Mathematics offered each term, from the Freshman year to the end of the second term in the Senior year.

For the year 1890–'91 this premium was awarded to

GERALD BIRNEY SMITH.

The Dunn Premium. A fund amounting to somewhat over eight hundred dollars was presented to the University by pupils and friends of the late PROFESSOR ROBINSON POTTER DUNN, D. D., the income to be given, at the *end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1890–'91 this premium was awarded to

AUGUSTUS PHINEAS RECCORD.

The Class of 1873 Prize. A fund amounting to five hundred dollars was presented to the University by THE CLASS of 1873, on the condition that its income should be used as a prize for an Essay. The prize is annually offered for competition to members of the Senior Class.

On Commencement Day, June 17, 1891, the President announced the award of this prize to

GERALD BIRNEY SMITH.

The Foster Premium. This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late HON. LA FAYETTE SABINE FOSTER, LL. D., of the Class of 1828.

In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad, or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior Class, will be held early in May, 1892. Candidates will be examined in the Oration on the Crown.

On Commencement Day, June 17, 1891, the President announced the award of this prize in equal parts to

JAMES MARTIN GILLRAIN

and

JOHN FRANCIS GREENE.

SPECIAL HONORS

CLASS OF 1891

Name	Subject
Edward Otis Bartlett Jr.,	German.
Stephen Sheldon Colvin,	English Literature.
Chester Aquila Cook,	German.
Frank Graves Cressey,	Political Economy.
Seeber Edwards,	German.
Samuel Andrews Everett,	English Literature.
James Martin Gillrain,	Greek, Political Economy.
William John Greene,	Latin.
Ernest Abbott Hicks,	German.
Ernest Henry Johnson,	Greek, German.
Charles Albert Meader,	German.
Gerald Birney Smith,	Philosophy.
Alfred Simpson Taylor,	German.
James Freebody Thompson,	English Literature.
Frank Edward Winsor,	Mechanics.

CLASS OF 1892

JUNIOR HONORS

Name	Subject
Albert Leslie Barbour,	German, Greek.
Marshall Stewart Brown,	History.
Warren Gardner Bullard,	Greek, Calculus.
William Richardson Dorman	German.
Royal Henry Gladding,	German.
Albert Edward Hylan,	German.
Arthur Newton Leonard,	German.
James Aldrich Pirce,	Greek.
Augustus Phineas Reccord,	English Literature.
Henry Kalloch Rowe,	History, Latin.
James Edward Smith,	German.
Henry Morgan Stone,	English Literature.

CLASS OF 1893

SOPHOMORE HONORS

Name	Subject
Henry Ward Beecher Arnold,	Latin.
Arthur Train Belknap,	Rhetoric.
William Burdick,	Latin, German.
Herbert Ernest Day,	German.
Orin Parker Durkee,	French.
Irving Lysander Foster,	German, French.
Frederic Poole Gorham,	Rhetoric.
Daniel Howard,	Rhetoric.
Frederic Pierpont Ladd,	French.
Leslie Elias Learned,	French.
Frank Grant Lewis,	German.
Winthrop John Vanleuven Osterhout,	Rhetoric.
Charles Appleton Powers,	German.
Walter Scott Reynolds,	German.
Arthur William Rowell,	Mechanics.
Daniel Cory Snow,	Greek.
Alfred Reynolds Wightman,	German, Latin.

DEGREES CONFERRED IN 1891

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

WALTER EVANS ANDREWS,
JOSEPH NICKERSON ASHTON,
JOHN BAPTISTE BARBOUR,
EDWIN ARMINGTON BARROWS,
EDWARD OTIS BARTLETT JR.,
ARTHUR LORING BEALS.
EDWARD BAILEY BIRGE,
CHARLES DAVIS BURROWS,
AUGUSTUS WOODBURY CALDER,
ALEXANDER DUNCAN CHAPIN JR.,
ARTHUR HUTCHINS COLBY,
CHESTER AQUILA COOK,
FRANK GRAVES CRESSEY,
SEEBER EDWARDS,
SAMUEL ANDREWS EVERETT,
MARTIN SMITH FANNING,
GEORGE HOOPER FERRIS,
JAMES MARTIN GILLRAIN,
WILLIAM JOHN GREEN,
FREDERIC ALBERT GREENE,
JOHN FRANCIS GREENE,
ERNEST ABBOTT HICKS,
FRANK LEONARD HINCKLEY,
GEORGE JAMES HOLDEN,
WILLIAM HENRY HOPKINS,
WALTER KENDALL JEWETT,
ALBERT BUSHNELL JOHNSON,
ERNEST HENRY JOHNSON,
EDWARD STEPHEN KILEY,
CHARLES EDWARD KNOWLES,
FRANK DYER LISLE,
THOMAS FRANCIS MCDONNELL,
CHARLES ALBERT MEADER,
ABRAM CYRUS MENDENHALL,
MORRIS LEWIS MESSER,
JOHN DERWARD MINER,
ROBERT STANBERRY OLNEY,
NILLO GRISWOLD PROCTOR,
CHARLES HUMPHREY SISSON,
GERALD BIRNEY SMITH,
FRANCIS HENRY SPEAR,
FERDINAND DUTTON STIDHAM,
WALTER LINCOLN STONE,
JAMES FREEBODY THOMPSON,
GEORGE WALKER,
JOHN EDWARD WEEDEN 2D,
ELMER ALMY WILCOX,
EDGAR LINCOLN WILLARD,
FRED WAYLAND WOODCOCK.

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

STEPHEN SHELDON COLVIN,
EDWIN GRANT DEXTER,
HERBERT LUTHER DUNN,
FRANCIS EDGAR GEORGE,
MERRICK LYON GOFF,
WILLIAM HOWARD PAINE,
CHARLES MANCHESTER PERRY,
WILLIAM BENJAMIN PERRY JR.,
HENRY JOSHUA SPOONER JR.,
ROBERT WENDELL TAFT,
ALFRED SIMPSON TAYLOR,
JAMES LUCAS WHEATON JR.,
ALBERT DEFORREST PALMER JR., FRANK EDWARD WINSOR,
WALTER ALLEN YOUNG.

THE DEGREE OF MASTER OF ARTS

in connection with their respective classes

ON

WILLIAM AMES, Class of 1863,
AMOS MILLER BOWEN, Class of 1863,
ZEPHANIAH BROWN, Class of 1863,
HARRY COOKE CUSHING, Class of 1863,
CLARENCE TRIPP GARDNER, Class of 1864,
ORSMUS AUGUSTUS TAFT, Class of 1863.

THE DEGREE OF MASTER OF ARTS

after examination

ON

JOHN WESLEY GILBERT,
FREDERICK TAFT GUILD,
ALBERT DAVIS MEAD,
LYMAN CHURCHILL NEWELL,
HERBERT AMBROSE RICE,
ADRIAN SCOTT.

THE DEGREE OF DOCTOR OF PHILOSOPHY

On JOHN MELVILLE GOULD, in recognition of the critical research and special attainments evinced in his work entitled The Law of Waters, and in the work composed in part by him, entitled Notes on the Revised Statutes of the United States.

On WILLIAM VAIL KELLEN, in recognition of the critical ability and special attainments evinced in his Index-Digest of the Massachusetts Reports.

On EDWARD CALDWELL MOORE, in recognition of the critical research and special attainments evinced by his Dissertation on Recent Theories of the Apocalypse.

On SAMUEL THURBER, in recognition of the critical research and special attainments evinced in his various publications, especially his Vocabulary to the First Six Books of Homer's Iliad.

On GEORGE FOX TUCKER, in recognition of the critical research and special attainments evinced in his Manual of Wills, his History of the Monroe Doctrine, and his work, as joint author, entitled Notes on the Revised Statutes of the United States.

HONORARY DEGREES

THE DEGREE OF BACHELOR OF ARTS

ON

JAMES LAWRENCE BENNETT,
COURTNEY LANGDON.

THE DEGREE OF MASTER OF ARTS

ON

EDWARD HUME BUCKNAM,
CHARLES LOUIS COLBY,
ROYAL CHAPIN TAFT.

THE DEGREE OF DOCTOR OF DIVINITY

ON

RICHARD STEERE COLWELL,
JOHN MAHAN ENGLISH.

THE DEGREE OF DOCTOR OF LAWS

ON

WILLIAM WILLIAMS KEEN,
CHARLES MATTESON,
WILLIAM AUGUSTUS ROGERS,
HENRY GRIGGS WESTON.

STUDENTS

GRADUATES

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

NAME	RESIDENCE
Orris Lyford Beverage, A. M., Colby, 1887, Chemistry, German.	*Attleboro', Mass.*
Asa Clinton Crowell, A. M., 1889, German, French.	*Pawtucket.*
William Woodside Curtis, A. M., Bowdoin, 1885, Philosophy, History.	*Pawtucket.*
Charles Edward Dennis, Jr., A. M., 1890, Latin, Greek, Ancient History.	*Providence,* 56 Messer St.
Walter Goodnow Everett, A. M., 1888, Philosophy, Ethics.	*Providence,* 171 Pleasant St.
Frederick Taft Guild, A. M., 1891, Chemistry, German.	*Providence,* 10 Pitman St.
Walter Ballou Jacobs, A. M., 1885, Philosophy, Pedagogy.	*Providence,* 362 Point St.
Goldsberry Bolo Merritt, A. B., Antioch, 1885, Semitic Languages, Philosophy of Religion.	*Fall River, Mass.*
Adrian Scott, A. M., 1891, Teutonic Languages and Mythology, Sanskrit.	*Blackstone, Mass.*
Augustus Taber Swift, A. M., 1890, German, French, English.	*New Bedford, Mass.,* 51 Waterman St.

CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

NAME	RESIDENCE
JOHN LINCOLN ALGER, A. B., 1890, Physics, Mathematics.	*Providence,* 8 Angell Place.
WALTER EVANS ANDREWS, A. B., 1891, Political Economy, English Literature.	*Worcester, Mass.*
EDWARD OTIS BARTLETT JR., A. B., 1891, German, French.	*Cornwall-on-Hudson, N. Y.*
JOSIAH BARTLETT, B. P., 1888, Mathematics, German.	*Sing Sing, N. Y.*
ELI WHITNEY BLAKE JR, A. B., 1888, Zoölogy, English.	*Hampton, Va.*
ALFRED PALEY BOND, A. B., 1890, German, Philosophy.	*Mount Pleasant, Pa.*
MARTIN SALISBURY BUDLONG, A. B., 1890, German, French, Italian.	*Providence,* 142 High St.
JOSEPH EDMOND BULLEN, A. B., 1890, German, History, English Literature.	*Pelham Manor, N. Y.*
EDMUND CODY BURNETT, A. B., 1890, History, Political Economy.	*Mossy Creek, Tenn.*
LUCIA MARIA CLAPP, B. S., Smith, 1889, Zoölogy, Chemistry, Astronomy.	*Providence,* 26 Cabot St.
STEPHEN SHELDON COLVIN, B. P., 1891, English Literature and Language.	*Providence,* 47 Camp St.
FRANK GRAVES CRESSEY, A. B., 1891, Political Economy, Psychology.	*Los Angeles, Cal.*
JAMES QUAYLE DEALEY, A. B. 1890, Greek, German.	*Saxton's River, Vt.*
EDWIN GRANT DEXTER, B. P., 1891, Embryology, Morphology, Geology, Physiology, Anatomy.	*Worcester, Mass.* 53 Waterman St.
MARTIN SMITH FANNING, A. B., 1891, German.	*Providence.* 3 Sutton St.
GEORGE HOOPER FERRIS, A. B., 1891, Philosophy, English.	*Milwaukee, Wis.*
JOHN FRANCIS GREENE, A. B., 1891, American History, German, Spanish.	*Seekonk.* Slater, 12.
WILLIAM JOHN GREEN, A. B., 1891, Ethics, English History.	*New York City.*

NAME	RESIDENCE
EDGAR HOMER GROUT, A. B., 1885, History, English.	*Woodbury, Conn.*
ELLEN MARIA HINDS, A. B., Smith, 1889, English, Mathematics, Astronomy.	*Providence.* 103 Governor St.
LINCOLN CRAWFORD HEYWOOD, B. S., Technology, 1891, Electricity, Mathematics.	*Pawtucket.*
GEORGE JAMES HOLDEN, A. B., 1891. Constitutional History, Political Economy.	*Altoona, Pa.*
ALBERT BUSHNELL JOHNSON, A. B., 1891, German, French, Italian.	*Howard.*
ARTHUR PLINY JOHNSON, A. B., 1888, German, English.	*Bristol.*
ERNEST HENRY JOHNSON, A. B., 1891, German, French.	*East Providence.*
ALEXANDER MARSHALL, B. P., 1888, M. D., Physiology, Chemistry.	*Ashton.*
CHARLES ALBERT MEADER, A. B., 1891, German.	*Salem, N. Y.*
LEWIS HAMILTON MEADER, A. M., Dartmouth, History, German.	*Providence.*
HENRY ROBINSON PALMER, A. B., 1890, History, English.	*Stonington, Conn.*
HENRY FENNO PARKER, A. B., 1889, Geology, Prehistoric Archaeology.	*Brockton, Mass.*
DENNIS HARVEY SHEAHAN, A. B., 1889, History.	*Providence,* 138 Veazie St.
ARTHUR WARREN SMITH, A. B., 1890, Greek.	*Providence,* 30 Providence St.
GERALD BIRNEY SMITH, A. B., 1891, Philosophy, American Political History.	*Oberlin, O.*
PERCY DINSMORE SMITH, A. B., 1889, History.	*Glocester.*
DAVID GRANT SMYTH, A. B., 1889, Mathematics.	*Hartford, Conn.*
VERNON PURINTON SQUIRES, A. B., 1889, English Literature.	*Oneonta, N. Y.*
FREDERICK EMERSON STOCKWELL, A. B., 1890, Philosophy of Religion, Political and Social Science.	*Germantown, Pa.*
ALFRED SIMPSON TAYLOR, B. P., 1891, Anatomy, Physiology, Biology.	*Pawtucket.*

NAME	RESIDENCE
GEORGE BULKLEY WAKEMAN, A. B., 1884, Greek, Latin, German.	*Havana, N. Y.*
WILLIAM ALLEN WILBUR, A. B., 1888, Mediaeval and Modern History, Latin.	*Mystic River, Conn.*
ELMER ALMY WILCOX, A. B., 1891, Sociology, Political Economy.	*Providence,* 59 Messer St.
EDGAR LINCOLN WILLARD, A. B., 1891, English Literature, Ethics.	*Oxford, Mass.*
JOHN PARKER WILLIAMS, B. P., 1889, Mathematics, German.	*Pawtucket.*
LEVERETT SUPPLY WOODWORTH, A. B., 1872, Ecclesiastical History.	*Providence,* 5 Rhode Island Ave.
WALTER HARRIS YOUNG, A. B., 1890, Philosophy, Greek.	*Suffield, Conn.*

Special Course

HENRY DUNNELL, A. B., Yale, 1891, Chemistry.	*Providence,* 263 Benefit St

SENIOR CLASS

NAME	RESIDENCE	ROOM
George Frederick Andrews,	*Providence,*	25 Division St.
Neil Andrews Jr.,	*Providence,*	243 Richmond St.
Albert Leslie Barbour,	*Ashton,*	Hope, 4.
Horatio Eliphalet Bellows,	*Providence,*	66 Tanner St.
John Frederick Blacklock,	*Newport,*	Hope, 37.
Bertram Blaisdell,	*Meredith, N. H.,*	Hope, 38.
Everett Anthony Bowen,	*Providence,*	Slater, 12.
Horatio Nelson Slater Bradford,	*Springfield, Mass.,*	Slater, 2.
James Edward Brennan,	*Pawtucket,*	University, 54.
Marshall Stewart Brown,	*Keene, N. H.,*	University, 25.
Theodore Shotwell Brown,	*Philadelphia, Pa.,*	Slater, 7.
Edward Ibarra Brownell,	*Bristol,*	91 Westminster St.
Herbert Carpenter Brownell,	*Providence,*	73 Prospect St.
Warren Gardner Bullard,	*Geneva, N. Y.,*	Hope, 28.
Leonard Herbert Campbell,	*Providence,*	221 Pavilion Ave.
Walter Lincoln Chase,	*Middletown,*	Hope, 39.
James Cross Collins Jr.,	*North Providence,*	Slater, 14.
William Richardson Dorman,	*Brooklyn, N. Y.,*	Slater, 14.
Frederick Alvin Durham,	*Epworth, Ia.,*	Slater, 19.
Frank Tourtellot Easton,	*Providence,*	University, 53.
William Holden Eddy,	*Providence,*	36 Bradford St.
John Paine Gage,	*Fall River, Mass.,*	University, 10.
Royal Henry Gladding,	*Providence,*	138 Broadway.
Isaac Philip Greene,†	*Portsmouth,*	University, 10.
Charles Frederic Harper,	*Woonsocket,*	Hope, 4.
Albert Edward Hylan,	*Brentwood Corner, N. H.,*	Hope, 29.
Martin Wilmarth Kern,	*Providence,*	81 Chestnut St.
William Chauncy Langdon Jr.,	*Providence,*	38 Barnes St.
Arthur Newton Leonard,	*Providence,*	71 Providence St.
Louis Manson Lincoln,	*Providence,*	25 Ringgold St.
John Hathaway Lindsey,	*Fall River, Mass.,*	Slater, 6.

† Deficient in one or more studies.

NAME	RESIDENCE	ROOM
Frank Willington Matteson,	*Providence*,	Slater, 13.
Horace McFarland,	*Framingham, Mass.*,	49 Chestnut St.
Arthur Francis McGinn,	*Providence*,	Hope, 3.
Charles Henry Merriman Jr.,	*Nayatt Point*,	Hope, 1.
Edmund Bingham Munger,†	*Xenia, O.*,	Slater, 3.
Gorham Noble Norton,	*Providence*,	University, 27.
Edward De Vallie O'Connor,	*Providence*,	University, 54.
Richard Olney,	*Cherry Valley, Mass.*,	Slater, 17.
William Henry O'Neil,	*Providence*,	10 Kepler St.
Herbert Graves Partridge,	*Westminster, Mass.*,	Hope, 37.
John Combe Pegram Jr.,	*Providence*,	Slater, 2.
James Aldrich Pirce,	*Johnston*,	University, 53.
Augustus Phineas Reccord,	*Fairhaven, Mass.*,	Hope, 25.
Herbert Howard Rice,	*Providence*,	359 Friendship St.
George Nelson Richmond,	*Guilford, Vt.*,	University, 33.
Henry Kalloch Rowe,	*Newton Centre, Mass.*,	University, 46.
Francis Mitchel Smith Jr.,	*Providence*,	Hope, 1.
James Edward Smith,	*Phenix*,	Hope, 3.
William Henry Smith,	*Fall River, Mass.*,	Slater, 6.
Charles Stickney,	*Elk Point, S. Dak.*,	Hope, 15.
Henry Morgan Stone,	*Providence*,	24 Linden St.
Harrison Southwick Taft,	*Providence*,	102 Waterman St.
Ralph Winfred Tower,	*Bristol, Conn.*,	Hope, 29.
Frank Levi Trimble,	*Winchester, Tenn.*,	Hope, 45.
Alpheus Dudley Tucker,	*Pawtucket*,	41 University Hall.
Frank William Tucker,	*Lee, Mass.*,	University, 30.
Robert Northam Turner Jr.,	*Bristol*,	University, 50.
Benjamin Stanley Webb,	*Providence*,	University, 53.

JUNIOR CLASS

NAME	RESIDENCE	ROOM
Earl Chapman Arnold,	*Providence,*	3 Myrtle St.
Henry Ward Beecher Arnold,	*Hopedale, Mass.,*	Hope, 12.
Henry Ames Barker,	*Providence,*	43 Melrose St.
Herbert Gould Beede,	*Central Falls,*	Hope, 16.
Arthur Train Belknap,	*Framingham, Mass.,*	University, 33.
Robert Marshall Brown,	*Northbridge, Mass.,*	Hope, 43.
William Judson Brown,	*Tiverton,*	Slater, 11.
Lewis Judson Bullard,	*Manchester, N. H.,*	Hope, 31.
William Burdick,	*Newport,*	Slater, 9.
Edward Norton Casey,	*Whiting, Vt.,*	Hope, 42.
John Laertes Casey,†	*Whiting, Vt.,*	Hope, 48.
Arnold Buffum Chace Jr.,	*Providence,*	Slater, 4.
Seth Howard Chace,	*E. Freetown, Mass.,*	Hope, 9.
William Everett Chalmers,	*Paterson, N. J.,*	Hope, 41.
Frederick Shepard Cheney,	*Providence,*	Hope, 19.
Thomas Patrick Corcoran,	*Pawtucket,*	Pawtucket.
Edward Francis Cunningham,	*Woonsocket,*	Hope, 19.
Robert Cushman,	*Providence,*	University, 36.
Herbert Ernest Day,	*Danielsonville, Conn.,*	Hope, 16.
Edwin Bailey Dolan,	*Bolton, Mass.,*	Hope, 47.
Orin Parker Durkee,	*Warrenville, Conn.,*	University, 25.
Harry St. John Filmer,	*Webster, Mass.,*	Slater, 19.
John James Fitzgerald,	*Pawtucket,*	Pawtucket.
Irving Lysander Foster,	*East Killingly, Conn.,*	Hope, 16.
Albert Knight Gerald,	*Providence,*	University, 51.
Robert Remington Goff,	*Providence,*	28 Mawney St.
Frederic Poole Gorham,	*Providence,*	103 Knight St.
George Wilson Crockett Hill,†	*Providence,*	University, 10.
Stephen Allen Hopkins,	*Providence,*	University, 51.
Daniel Howard,	*Providence,*	247 Public St.
Horace Edgar Jacobs,	*Providence,*	918 Broad St.
Ben Johnson,	*Elyria, O.,*	University, 34.

NAME	RESIDENCE	ROOM
Edgar Mann Johnson,	*East Providence,*	East Providence.
William Dawson Johnston,†	*Kalamazoo, Mich.,*	141 Angell St.
John Davis Edmands Jones,	*Worcester, Mass.,*	University, 17.
Frederic Pierpont Ladd,	*Moosup, Conn.,*	University, 41.
Leslie Elias Learned,	*Lonsdale,*	University, 28.
Frank Grant Lewis,	*Hedgesville, N. Y.,*	Hope, 12.
Arthur Joseph Llewellyn,	*Providence,*	University, 28.
Frank Heath Mason,	*Greenwich, N. Y.,*	University, 47.
Archibald Claflin Matteson,	*Providence,*	University, 18.
Charles Herbert McLane,	*Providence,*	457 Washington St.
Alexander Meiklejohn,	*Pawtucket,*	41 University.
Wendell Axtell Mowry,	*Woonsocket,*	Hope, 22.
Harry Beach Needham,†	*Chicago, Ill.,*	Slater, 3.
Winthrop John Vanleuven Osterhout,	*Providence,*	31 Oak St.
Charles Howard Phelps,	*Central Bridge, N. Y.,*	University, 47.
Charles Marshall Poor,	*Manchester, N. H.,*	Hope, 31.
Charles Appleton Powers,	*Bolton, Mass.,*	Hope, 47.
William Stewart Reoch,	*Phenix,*	Hope, 19.
Walter Scott Reynolds,	*Glocester,*	Hope, 22.
Herbert Augustus Richards Jr.,	*Providence,*	27 Parade St.
Thomas Harwood Rothwell,	*Providence,*	30 Tobey St.
Arthur William Rowell,	*Manchester, N. H.,*	Hope, 32.
Charles Albert Selden,†	*Providence,*	Hope, 15.
Lucian Sharpe Jr.,	*Providence,*	Slater, 4.
Walter Edward Smith,	*Providence,*	60 Jenkins St.
Daniel Cory Snow,	*West Harwich, Mass.,*	Hope, 12.
Elliott Francis Studley,	*Providence,*	24 Pavilion Ave.
Edward Anthony Thurston,	*Fall River, Mass.,*	Slater, 11.
Carl Vernon Tower,	*Dayton, O.,*	University, 44.
Frank Arthur Updyke,	*Daggett's Mills, Pa.,*	Hope, 34.
Joseph Walther,	*Bridgeport, Conn.,*	Hope, 43.
Edward Henry Weeks,	*Barrington,*	Barrington.
Frank Boutelle Whidden,	*Worcester, Mass.,*	Hope, 43.
Alfred Reynolds Wightman,	*Wickford,*	University, 26.
Frederick Crosby Williams,†	*Davenport, Ia.,*	Slater, 4.

SOPHOMORE CLASS

NAME	RESIDENCE	ROOM
Charles Spaulding Aldrich,	*Perkinsville, Vt.*,	Hope, 24.
Clarence Newton Arnold,†	*Providence*,	Slater, 10.
Chester Willard Barrows,	*Providence*,	Hope, 6.
Henry Milton Barry,	*Saxton's River, Vt.*,	Hope, 42.
James Davis Bennett,	*Hope Valley*,	Hope, 13.
John William Beverly,	*Montgomery, Ala.*,	3 Hewes St.
Russell Hall Birge,	*Providence*,	124 Bacon St.
Francis Chase Bliss,	*Newport*,	240 Benefit St.
William Clifton Bourne,	*Pawtucket*,	12 Sisson St.
William Alva Brady,	*Brooklyn, N. Y.*,	Slater, 8.
Samuel Willard Bridgham,†	*East Providence*,	Hope, 36.
Jacob Winn Brown,	*Woburn, Mass.*,	University, 12.
Walter Dexter Brownell,	*Providence*,	73 Prospect St.
Herbert Daniel Casey,	*Whiting, Vt.*,	Hope, 48.
George Mason Chamberlin,	*Orange, Mass.*,	112 George St.
Frederick Wilkinson Colburn,	*Holliston, Mass.*,	University, 59.
Harold Congdon,†	*Providence*,	Slater, 2.
Alfred Beethoven Connable,	*Petoskey, Mich.*,	Hope, 23.
Clayton Sedgwick Cooper,	*Henderson, N. Y.*,	University, 48.
Thomas Crosby Jr.,	*Newport*,	Slater, 20.
George Marcus Crowell,	*Providence*,	861 N. Main St.
William Tully Dorrance,	*Providence*,	98 Waterman St.
William Douglas,	*Indianapolis, Ind.*,	107 Prospect St.
Robert William Drawbridge,†	*Middleton, N. H.*,	Hope, 27.
Hezekiah Anthony Dyer,	*Providence*,	Hope, 35.
Charles Haigh Ellis,	*North Billerica, Mass.*,	Hope, 27.
George Sheldon Ellis,	*Allegany, N. Y.*,	Hope, 33.
Adolph Conrad Ely,	*Plantsville, Conn.*,	University, 13.
James Frederick Estes,	*Providence*,	Hope, 20.
Eugene Ellsworth Everett,	*Providence*,	6 Thomas St.

NAME	RESIDENCE	ROOM
John Russell Ferguson,	*Fall River, Mass.,*	Hope, 26.
Harold Crins Field,	*Providence,*	16 Cabot St.
Jay Schuyler Fox,	*Three Mile Bay, N. Y.,*	University, 48.
John Gayton Fryer,	*Providence,*	Hope, 18.
Edward Francis Gamwell,	*Holliston, Mass.,*	Hope, 13.
George Warren Gardner,	*Biddeford, Me.,*	Slater, 20.
Daniel Farrington George,	*Providence,*	University, 18.
William Fraser Grant,	*Providence,*	85 Lippitt St.
Clifford Henry Griffin,	*Providence,*	25 Division St.
George Robinson Cooper Hall,	*Providence,*	University, 21.
Henry Jewett Hall,	*Milford, N. H.,*	University, 52.
Livingston Ham,	*Providence,*	2 Angell St.
William Henry Thomas Hamill,	*Bristol,*	Bristol.
George Robinson Hazard,	*Newport,*	Hope, 39.
Harold Dexter Hazeltine,	*Warren, Pa.,*	University, 43.
Carl Ernest Healy,	*Fall River, Mass.,*	Hope, 26.
Samuel McPherson Higgins,	*Flemington, N. J.,*	Hope, 44.
William Colver Hill,	*Malden, Mass.,*	University, 32.
William Pitt Hinckley,	*Providence,*	89 Waterman St.
George Woodley Hogg,	*Providence,*	34 Congdon St.
John Hope,	*Augusta, Ga.,*	Hope, 45.
William Caswell Huntoon,	*Providence,*	University, 40.
Francis Chester Jackson,	*Delavan, Wis.,*	Hope, 34.
Lucius Herbert Newell,	*Pawtucket,*	University, 41.
Walter Hammond Kimball,	*Providence,*	University, 21.
Richard Williams Kirkley,	*Toledo, Ohio,*	University, 34.
Edwin Knowles Jr.,	*Providence,*	Slater, 16.
Frank Edwin Lakey,	*Providence,*	37 Codding St.
Joseph West Lewis,	*Providence,*	Slater, 20.
Robert Stuart MacGregor,	*St. Andrews, Canada,*	University, 28.
Benjamin Elbridge Martin,	*Swansea, Mass.,*	Hope, 9.
Frederick William Marvel,	*Rehoboth, Mass.,*	University, 30.
Edward Bruce Merriman,	*Nayatt,*	Nayatt.
Harold Thurston Merriman,	*Nayatt,*	Nayatt.
James Spencer Moore,	*East Providence,*	Hope, 17.
Allan Benton Morton,	*Kingston, Pa.,*	Hope, 6.
William Washburn Moss,	*Providence,*	Hope, 6.
Edgar Smiley Nash,	*Philadelphia, Pa.,*	Slater, 7.

NAME	RESIDENCE	ROOM
Charles Spurgeon Nightingale,	*Louisville, Ky.,*	University, 59.
William Boyce Northrup,†	*Sherburne, Mass.,*	Hope, 25.
Joseph Berchmann O'Neill,	*Pawtucket,*	University, 54.
David Bangs Pike,	*Providence,*	Hope, 20.
Albert Joseph Pope,	*Lee, Mass.,*	University, 13.
Algernon Wait Putnam,	*South Lyndeboro, N. H.,*	Hope, 2.
Louis Alexandre Roux,	*Saxton's River, Vt.,*	Hope, 14.
Henry Weston Sackett,	*Providence,*	University, 22.
Henry Dexter Sharpe,	*Providence,*	56 Angell St.
John Smith Shippee,	*East Greenwich,*	East Greenwich.
Henry Bennett Slade,	*Providence,*	Hope, 27.
John Byron Stanton,	*Sterling, Conn.,*	Hope, 21.
Francis Hamilton Staples,†	*Worcester, Mass.,*	Slater, 5.
Frank Steere,	*Glocester,*	Glocester.
Frederick Eugene Steere,	*Johnston,*	173 Waterman St.
Morton Collins Stewart,	*Quincy, Ill.,*	University, 31.
Mahlon Runyon Stout,	*New Brunswick, N.J.,*	Hope, 10.
William Cowper Stratton,	*Milford, N. H.,*	University, 60.
Israel Strauss,	*Pawtucket,*	Pawtucket.
Howard Edwin Sumner,	*Worcester, Mass.,*	Slater, 5.
Foster Williams Taft,	*Providence,*	102 Waterman St.
Fred Tenney,	*Georgetown, Mass.,*	University, 17.
Albert Ellsworth Thomas,	*Brockton, Mass.,*	Slater, 14.
Lewis Anthony Waterman,	*Providence,*	96 Chapin Ave.
Eugene Crawford Williams,	*Pawtucket,*	Pawtucket.
Roddo York Young,†	*Ottawa, Ks.,*	University, 52.

FRESHMAN CLASS

NAME	RESIDENCE	ROOM
Andrew Adams,	*Winchendon, Mass.,*	University, 19.
Herbert Matthews Adams,	*Pawtucket,*	University, 41.
W Scott Adams,	*Agawan, Mass.,*	Hope, 46.
Fred Davis Aldrich,	*Webster, Mass.,*	University, 57.
Guy Ashton Andrews,	*Providence,*	72 College St.
John Wardwell Angell,	*Providence,*	34 George St.
George Allen Anthony,	*Drownville,*	Drownville.
John Clinton Anthony,	*Fall River, Mass.,*	Hope, 7.
William Henry Atwood,	*New Bedford, Mass.,*	Hope, 11.
George William Bartlett,	*Pawtucket,*	Hope, 8.
George Phippen Beckford,	*Manchester, N. H.,*	Hope, 32.
Oscar Francis Bellows,	*Providence,*	Hope, 20.
Fred Bement,	*Suffield, Conn.,*	Slater, 18.
John Weston Butler,	*East Greenwich,*	East Greenwich.
Walter Guyton Cady,	*Providence,*	127 Power St.
Daniel Champlin Chace,	*Providence,*	362 Point St.
Frederick Otis Clapp,	*Providence,*	11 Bridgham St.
Theron Clark,	*Colchester, Conn.,*	Hope, 21.
Raymond Capron Cook,	*Woonsocket,*	Hope, 40.
Henry Elliott Cooper,	*Pawtucket,*	Slater, 7.
Walter Theodore Crosby,	*Brockton, Mass.,*	Slater, 15.
Robert Harvey Day,	*Providence,*	Douglas St.
Nathaniel Wheaton Dexter,	*Pawtucket,*	University, 40.
Samuel White Duncan Jr.,	*Haverhill, Mass.,*	University, 55.
Albert Milton Dunham,	*Attleboro', Mass.,*	Hope, 8.
Stafford Clarence Edwards,	*Lambs Corners, N. Y.,*	53 Waterman St.
Franklin Davenport Elmer,	*West Hartford, Conn.,*	Hope, 10.
Arthur Llewellyn Eno,	*Charlotte, Vt.,*	Hope, 14.
Pierson Thorn Fort,	*Pemberton, N. J.,*	Hope, 41.
Herve Washington Georgi,	*Jamestown, N. Y.,*	53 Waterman St.
George Andrew Gordon,	*Worcester, Mass.,*	53 Waterman St.

NAME	RESIDENCE	ROOM
Howard Marsh Grant,	*Providence,*	20 Brighton St.
Alexander Emor Harrington,	*Johnston,*	Centredale.
Albert Lewis Hibbard,	*Dunham, Que.,*	Hope, 2.
Fred Ellis Horton,	*Providence,*	31 State St.
Henry Joseph Hoye,	*Providence,*	Slater, 12.
Arthur Johnson Hull,	*Monroe, Conn.,*	Hope, 4.
Edward Perkins Jastram,	*Providence,*	Slater, 16.
Elisha Tucker Peirce Jenks,	*Middleboro', Mass.,*	Slater, 12.
Elno Dustin Lancey,	*Brookline, N. H.,*	Ladd Observatory.
James Lawson,	*Jamestown, N. Y.,*	University, 28.
William Edward Leathe,	*Taunton, Mass.,*	Hope, 8.
Arthur Amsden Macurda,	*Fitchburg, Mass.,*	Hope, 8.
Henry Mahoney,	*Providence,*	32 Bellevue Ave.
Philip Talmage McGown,	*Amherst, N. H.,*	University, 60.
Lester Meseroll,	*New Brunswick, N.J.,*	Hope, 44.
William Henry Millington,	*Chesterfield, N. J.,*	Hope, 30.
Francis Wayland Miner Jr.,	*Providence,*	Hope, 20.
Charles Jerome O'Connor,	*Providence,*	187 Camp St.
William Thomas O'Donnell,	*Bristol,*	University, 44.
George Harwood Olney,	*Cherry Valley, Mass.,*	Slater, 17.
Sumner Tingley Packard,	*Brockton, Mass.,*	Slater, 15.
George Washington Rapson,	*Whitman, Mass.,*	Hope, 24.
Fred Arthur Robinson,	*Greenville, N. H.,*	Hope, 28.
Albert Waterman Rounds,	*Providence,*	Hope, 35.
Edward Armington Sammis,	*Johnston,*	University, 44.
Dallas Lore Sharp,	*Bridgeton, N. J.,*	62 George St.
Frederick Slocum,	*New Bedford, Mass.,*	Hope, 11.
George Edward Smith,	*Providence,*	38 Bates St.
Jesse Fowler Smith,	*East Hartford, Conn.,*	Hope, 46.
Louis Almon Squires,	*Cortland, N. Y.,*	University, 16.
Allan Prescott Stevens,	*Bristol,*	University, 50.
John Campbell Swift,	*New Bedford, Mass.,*	51 Angell St.
William George Tarbox,	*Andover, Conn.,*	Hope, 21.
Lucien Edward Taylor,	*Providence,*	98 Whitmarsh St.
John Avery Tillinghast,	*Pawtucket,*	University, 28.
Edgar Luther Tinkham,	*Providence,*	100 Courtland St.
Amasa Randall Tourtellot Truex,	*Binghampton, N. Y.,*	University, 50.
Richard Miner Vaughan,	*Bangor, Wis.,*	Hope, 34.

NAME	RESIDENCE	ROOM
Francis Willis Wamsley,	*Bridgeton, N. J.,*	62 George St.
John Franklin Watts,	*Lynn, Mass.,*	53 Waterman St.
Paul Maurice White,	*Woonsocket,*	Hope, 40.
Hobart Augustus Whitman,	*Worcester, Mass.,*	University, 57.
Frederick Wallace Williams,	*Fox Lake, Wis.,*	Hope, 33.
Benjamin Williams,	*Jackson, Mich.,*	Hope, 38.
James Shuber Wilson,	*Providence,*	Providence.
William Frederick Wilson,	*Somerset, Mass.,*	Hill's Grove.
Louis Victor Campbell Winter,	*Staten Island, N. Y.,*	51 Angell St.
Peter Clark Wright,	*Merton, Wis.,*	Hope, 34.
Walter Cornelius Wyckoff,	*Red Bank, N. J.,*	Hope, 30.

Not Yet Matriculated

George Richard Atha,	*Pawtucket,*	University, 19.
Jeremiah Clarke Barber,	*Providence,*	Hope, 17.
William Arthur Burt,	*Providence,*	236 Friendship St.
Ferdinand Joseph Feeley,	*Woonsocket,*	Hope, 4.
Will Edward Gardner,	*Nantucket, Mass.,*	Hope, 17.
Collins Millard Graves,	*Bennington, Vt.,*	University, 43.
William Wirt Harvey,	*Providence,*	344 Public St.
William Aaron Heathman Jr.,	*Providence,*	3 Lloyd St.
Herbert Faulkner Hill,	*Warren, Mass.,*	Hope, 3.
Edward Elmer Ludwig,	*Titusville, Pa.,*	Hope, 23.
William McDonald Jr.,	*Albany, N. Y.,*	51 Angell St.
Joseph Belfield McIntyre,	*Central Falls,*	Hope, 19.
Richard Morris,	*Hales Eddy, N. Y.,*	Hope, 41.
Alpheus Appleton Packard,	*Providence,*	University, 36.
Edwin Angell Skinner,	*Bristol,*	University, 50.
Edmund Job Steere,	*Providence,*	Hope, 9.
Royal Chapin Taft Jr.,	*Providence,*	79 Waterman St.
Charles Harold Walling,	*Providence,*	8 Adelaide Ave.
Harry Clifford Whipple,	*Providence,*	University, 50.
George Alpha Winsor,	*Lincoln,*	Lincoln.
Augustus Judson Wood,	*Fall River, Mass.,*	Hope, 7.
John Young,	*New York, N. Y.,*	University, 28.

SELECT COURSE

NAME	RESIDENCE	ROOM
Edmund Burgess Aldrich,	*Providence,*	University, 18.
Theodore Barton Baylies,	*New Bedford, Mass.,*	Slater, 10.
George John Bloomfield,	*Pawtucket,*	Pawtucket.
Newell Cutler Bullard,	*North Attleboro', Mass.,*	University, 58.
Charles Sabin Bush,	*Providence,*	252 Broad St.
John Cameron,	*White Lake, Ont.,*	Hope, 18.
Frank Livingston Caswell,	*Narragansett Pier,*	Slater, 8.
Edward Warren Corliss,	*Providence,*	University, 27.
Herbert Howard Cushing,	*Philadelphia, Pa.,*	22 Benevolent St.
Weldon Ashley Duley,	*Andover, Mass.,*	University, 19.
George Herbert Eiswald,	*Providence,*	University, 31.
George Hail,	*Providence,*	259 Washington St.
George Grant Hunter,	*Andrew, Pa.,*	Slater, 18.
Fred Lionel Chester Keating,	*Providence,*	University, 40.
William Henry Magill,	*Providence,*	Hope, 5.
Frank Henry Morris,	*Providence,*	34 Meeting St.
Bernard Leo O'Donnell,	*Providence,*	166 Public St.
Heita Okada,	*Tokio, Japan,*	Hope, 45.
Frank Joseph Sexton,	*Brockton, Mass.,*	Hope, 5.
John Ambrose Shea,	*Valley Falls,*	Valley Falls.
Walter Leroy Smith,	*Saxton's River, Vt.,*	Hope, 14.
William Cory Snow,	*Providence,*	27 Lloyd St.
Alvin Bacon Preston Straight,	*Bradford, Pa.,*	10 Halsey St.
George Henry Sweet,	*Fall River, Mass.,*	Slater, 11.
Benjamin Francis Thurston,	*Providence,*	Slater, 1.
Rufus Waterman, 3rd,	*East Greenwich,*	East Greenwich.

SUMMARY

Graduates	55	Sophomores	94
Seniors	59	Freshmen	102
Juniors	67	Select Course	26
Total			403

SUMMARY BY STATES

Rhode Island	210	Tennessee	2
Massachusetts	72	Iowa	2
New York	24	California	1
Connecticut	19	Maine	1
New Hampshire	14	Virginia	1
Pennsylvania	12	Georgia	1
Vermont	11	Alabama	1
New Jersey	9	Indiana	1
Ohio	5	Kentucky	1
Wisconsin	5	South Dakota	1
Michigan	3	Japan	1
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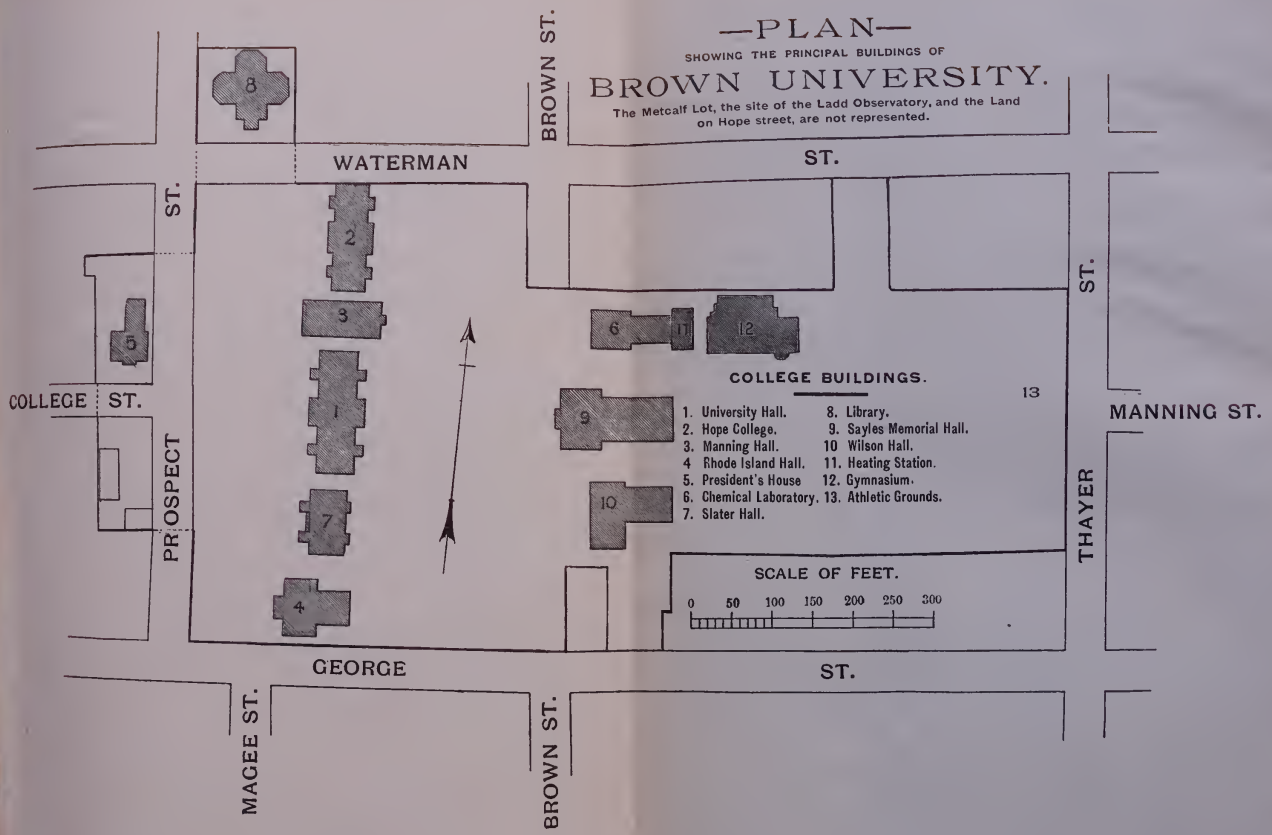
—PLAN—
SHOWING THE PRINCIPAL BUILDINGS OF
BROWN UNIVERSITY.
The Metcalf Lot, the site of the Ladd Observatory, and the Land on Hope street, are not represented.
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WATERMAN ST.
COLLEGE ST.
PROSPECT ST.
THAYER ST.
MANNING ST.
GEORGE ST.
MACEE ST.
BROWN ST.
COLLEGE BUILDINGS.
1. University Hall.
2. Hope College.
3. Manning Hall.
4 Rhode Island Hall.
5. President's House
6. Chemical Laboratory.
7. Slater Hall.
8. Library.
9. Sayles Memorial Hall.
10 Wilson Hall.
11. Heating Station.
12. Gymnasium.
13. Athletic Grounds.
SCALE OF FEET.
0 50 100 150 200 250 300

John Howard Appleton

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OF THE

Officers and Students

OF

BROWN UNIVERSITY

1892-93

The Providence Press
SNOW & FARNHAM, PRINTERS
37 Custom House Street
January, 1893

Calendar, 1892-93

1892	*Sunday*	*Monday*	*Tuesday*	*Wednes.*	*Thursday*	*Friday*	*Saturday*
July	..	..	..	..	..	1	2
	3	4	5	6	7	8	9
	10	11	12	13	14	15	16
	17	18	19	20	21	22	23
	24	25	26	27	28	29	30
	31	..	..	..	..	..	..
Aug.	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
Sep.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
Oct.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	..	..	..	..	..
Nov.	..	..	1	2	3	4	5
	6	7	8	9	10	11	12
	13	14	15	16	17	18	19
	20	21	22	23	24	25	26
	27	28	29	30	..	..	..
Dec.	..	..	..	..	1	2	3
	4	5	6	7	8	9	10
	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	31
	..	..	..	..	..	..	..

1893	*Sunday*	*Monday*	*Tuesday*	*Wednes.*	*Thursday*	*Friday*	*Saturday*
Jan.	..	..	..	..	..	..	..
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	..	..	..	..
Feb.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	..	..	..	..
Mar.	..	..	..	1	2	3	4
	5	6	7	8	9	10	11
	12	13	14	15	16	17	18
	19	20	21	22	23	24	25
	26	27	28	29	30	31	..
Apr.	..	..	..	..	..	..	1
	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	..	..	..	..	..	..
May	..	1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22	23	24	25	26	27
	28	29	30	31	..	..	..
June	..	..	..	..	1	2	3
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	11	12	13	14	15	16	17
	18	19	20	21	22	23	24
	25	26	27	28	29	30	..
	..	..	..	..	..	..	..

1893	*Sunday*	*Monday*	*Tuesday*	*Wednes.*	*Thursday*	*Friday*	*Saturday*
July	..	..	..	..	..	..	
	2	3	4	5	6	7	
	9	10	11	12	13	14	1
	16	17	18	19	20	21	2
	23	24	25	26	27	28	2
	30	31	..	..	..	..	.
Aug.	..	..	1	2	3	4	
	6	7	8	9	10	11	1
	13	14	15	16	17	18	1
	20	21	22	23	24	25	2
	27	28	29	30	31	..	.
Sep.	..	..	..	..	..	1	
	3	4	5	6	7	8	
	10	11	12	13	14	15	1
	17	18	19	20	21	22	2
	24	25	26	27	28	29	3
	..	..	..	..	..	..	.
Oct.	1	2	3	4	5	6	
	8	9	10	11	12	13	1
	15	16	17	18	19	20	2
	22	23	24	25	26	27	2
	29	30	31	..	..	..	.
Nov.	..	..	..	1	2	3	
	5	6	7	8	9	10	1
	12	13	14	15	16	17	1
	19	20	21	22	23	24	2
	26	27	28	29	30	..	.
Dec.	..	..	..	..	..	1	
	3	4	5	6	7	8	
	10	11	12	13	14	15	1
	17	18	19	20	21	22	2
	24	25	26	27	28	29	3
	31	..	..	..	..	..	.

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COLLEGE CALENDAR FOR 1892–93

1892.

September 7. *Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).

September 19, 20. *Monday, Tuesday.* Examination of Delinquents in College studies.

September 19, 20. *Monday, Tuesday.* Examinations for admission to College, and to Advanced Standing.

September 21. *Wednesday.* Academic Year Begins.

November 24. *Thursday.* Thanksgiving Day. No College exercises on Thursday, Friday or Saturday of Thanksgiving week.

December 12, 17. *Monday to Saturday.* Term Examinations of College classes.

Christmas Holidays, from Saturday evening, December 17, 1892, to Monday evening, January 2, 1893.

1893.

January 3. *Tuesday.* Second Term Begins.

January 26. *Thursday.* Day of Prayer for Colleges.

February 22. *Wednesday.* Washington's Birth-day. No College exercises.

March 18-24. *Saturday to Friday.* Term Examinations of College classes.

Spring Recess, from Friday evening, March 24, to Monday evening, April 3.

April 4. *Tuesday.* Third Term Begins.

May 30.	*Tuesday.* Memorial Day. No College exercises.
June 16-22.	*Friday to Thursday.* Term Examinations of College classes.
June 22.	*Thursday.* Hicks Prize Debate.
June 23.	*Friday.* Class Day.
June 25.	*Sunday.* Baccalaureate Sermon.
June 26.	*Monday.* Sophomore Prize Declamation.
June 27.	*Tuesday.* Annual Meeting of the Phi Beta Kappa Society, at 9.30 A. M.
June 27.	*Tuesday.* Annual Alumni Meeting, in Manning Hall, at 4 P. M.
June 28.	*Wednesday.* One Hundred and Twenty-fifth Annual Commencement (fourth Wednesday in June).
June 29.	*Thursday.* Meeting of the Corporation, in the Old Chapel, University Hall.
June 29, 30, *July* 1.	*Thursday, Friday, Saturday.* Examinations for admission to College.
	Summer Vacation
September 6.	*Wednesday.* Annual Meeting of the Corporation, in the Old Chapel, University Hall (first Wednesday in September).
September 18, 19.	*Monday, Tuesday.* Examination of Delinquents in College studies.
September 18, 19.	*Monday, Tuesday.* Examinations for admission to College, and to Advanced Standing.
September 20.	*Wednesday.* Academic Year Begins.

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RISE AND CONSTITUTION OF THE UNIVERSITY

BROWN UNIVERSITY owes its origin to the happy convergence of two separate lines of influence. So early as 1762 a "resolution to erect a college and institute a seminary for the education of youth somewhere in North America" had been formed by the Philadelphia Baptist Association, under whose auspices the Hopewell Academy, in New Jersey, had already been established. As Rhode Island had been settled on the principle of perfect toleration in religious belief, it was decided to apply to its legislature for a charter.

Ever after the residence here, from 1729 to 1731, of the distinguished Dean Berkeley, subsequently Bishop of Cloyne, Newport had been the centre of a pronounced intellectual interest, while the memory of Berkeley's scheme to found a college in America, with the actual erection of colleges in several of the other colonies, made it impossible that the suggestion of a college for Rhode Island should be strange or unwelcome to thoughtful people in that colony. The charter was granted, and reads as follows :

> At the General Aſsembly of the Governor and Company of the English Colony of Rhode Island and Providence-Plantations in New England in America, begun and held at East Greenwich within & for said Colony by adjournment upon the last Monday of Febr one Thousand Seven Hundred and Sixty-four, and in the fourth Year of the Reign of His Most Sacred Majesty George the Third, by the Grace of God, King of Great Britain and so forth

WHEREAS Inſtitutions for liberal Education are highly beneficial to Society, by forming the rising Generation to Virtue Knowledge & useful Literature & thus preserving in the Community a Succeſsion of Men duly qualify'd for discharging the Offices of Life with usefulneſs & reputation they have therefore justly merited & received the attention & Encouragement of every wise and well regulated State, and whereas a Public School or Seminary erected for that purpose within this Colony, to which the Youth may freely resort for Education in the Vernacular & Learned Languages & in the liberal Arts & Sciences, would be for the general Advantage & Honor of the Government, and whereas

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		Nicholas Gardiner Esqr
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Mr Edwd Thurston	Solomon Drown Esqr	
Mr Wm Redwood	Mr Saml Windſor	Peleg Thurston Esqre
		Simon Peaſe Esqre
Joseph Clarke Esqr	Mr Joseph Sheldon	
Mr John G. Wanton	Charles Rhodes Esqre	John Tillinghast Esqre
		George Haszard Esqre
Mr Thos Robinſon	Mr Nicholas Brown	Cole Job Bennet
	Cole Mr Barzilla Richmond	Nicholas Easton Esqre
	Mr John Brown	Arthur Fenner Esqre

with many other Perſons appear as undertakers in the valuable design, & thereupon a Petition has been preſer'd to this Aſsembly praying that full Liberty and Power may be granted unto such of them with others as are hereafter mentioned to found endow, order & govern a College or University within this Colony & that for the more effectual execution of this design they may be incorporated into one Body Politic to be known in the Law with the powers priviledges & franchiſes neceſsary for the purpose aforesaid—

Now, therefore know ye that being willing to encourage and patronise ſuch an honorable and useful Inſtitution, we the said Governor & Company in General Aſsembly convened do for ourselves and our

Succeſsors in and by virtue of the Power and Authority within the Jurisdiction of this Colony to us by the Royal Charter granted & committed enact grant conſtitute ordain & declare & it is hereby enacted granted conſtituted ordained and declared that the

ᵈ James Manning	Joshua Babcock Esqʳᵉ	Hon'ble Stephen Hopkins Esqʳᵉ
ᵈ Ruſsel Mason	Mʳ John G. Wanton	Hon'ble Joseph Wanton Junʳ Esqʳᵉ
ᵉ Elisha Reynolds	Revᵈ Edward Upham	~~Honble John Gardner~~
ᵉ Josias Lyndon	Revᵈ Jeremiah Condy	Hon'ble Samuel Ward Esqʳᵉ
ᵉ Job Bennet	Revᵈ Marmaduke Brown	Hon'ble William Ellery Esqʳᵉ
Ephraim Bowen	Revᵈ Gardner Thurston	" John Tillinghast Esqʳᵉ
ıua Clarke Esqʳᵉ	Revᵈ Ezra Stiles	" Simon Pease Esqʳᵉ
ᵗ Jonᵃ Slade	Revᵈ John Greaves	" James Honyman Esqʳᵉ
n Taylor Esqʳᵉ	Revᵈ John Maxson	" Nicholas Easton Esqʳᵉ
Robert Strettell Jones	Revᵈ Samˡ Winſor	" Nicholas Tillinghast Esqʳ
riah Dunham Esqʳᵉ	Revᵈ John Gano	" Darius Seſsions Esqʳᵉ
Edward Thurston Jʳ	Revᵈ Morgan Edwards	" Joseph Harris Esqʳᵉ
Thomas Eyres	Revᵈ Isaac Eaton	" Francis Willet Esqʳᵉ
Thomas Haszard	Revᵈ Samˡ Stillman	William Logan Esqʳᵉ
Peleg Barker	Revᵈ Samˡ Jones	" Daniel Jencks Esqʳᵉ
		George Hazard Esqʳᵉ
		~~Mʳ~~ Nicholas Brown Esqʳᵉ
		" Jeremiah Niles Esqʳᵉ

or ſuch or so many of them as ſhall within twelve Months from the date hereof, accept of this trust and qualify themſelves as herein after directed, and their Succeſsors ſhall be for ever hereafter one Body Corporate & Politic in Fact and Name to be known in Law by the Name of Truſtees, and Fellows of the College or University in the English Colony of Rhode Island and Providence Plantations in New England in America the Truſtees and Fellows at any Time hereafter giving such more particular Name to the College in Honor of the greatest & most distinguiſhed Benefactor or otherwise as they shall think proper which Name so given shall in all Acts, Inſtruments and Doings of said Body Politic be superadded to their corporate Name aforesaid, and become a part of their legal Appellation, by which it ſhall be for ever known and distinguiſhed, and that by the ſame Name, they and their Succeſsors chosen by themselves as hereafter preſcribed ſhall and may have perpetual Succeſsion, and ſhall & may be Perſons able and capable in the Law to Sue, & to be Sued to Plead and

to be impleaded to Anſwer, and to be Answered unto, to defend and to be defended in all and singular Suits Cauſes Matters Actions and Doings of what kind soever & also to have take poſſeſs purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and ſhall stand and be seized notwithstanding any Miſnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the ſame ſhall be described in Giſt, Bequests and Aſsignments provided the true intent of the Aſsigner or Benefactor be evident. Also the ſame to grant demiſe alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uſes to which they ſhall be ſeized there of and full Liberty Power & Authority is hereby granted unto the said Truſtees & Fellows and their Succeſsors to found a College or Univerſity within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they ſhall from time to time become legally Seized as aforesaid to Endow the ſame and erect the neceſsary Buildings & Edefices thereof on such Place within this Colony as they ſhall think Convenient: And Generally to regulate Order & Govern the ſame Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Priviliges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s^{d} Trustees & fellows & their Succeſsors ſhall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Succeſsors and the ſame Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal ſhall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter ſhall continue to be the unalterable Conſtitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowſhip with distinct ſeperate & respective powers, and that the Number of the Trustees ſhall and may be thirty ~~five~~ six of which twenty two ſhall forever be Elected of the Denomination called Baptists or Antipedobaptis Five ſhall for ever be elected of the Denomination called Friends or Quakers, four ſhall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five ſhall

or ever be elected of the Denomination called Episcopalians & that he Succeſsion in this Branch ſhall be for ever chosen & filled up from he respective Denominations in this proportion and according to these Numbers which are hereby fixt & ſhall remain to perpetuity imutaly the ſame and that the said

Iſaac Eaton	" Francis Willet Esq^{re}	Hon'ble Stephen Hopkins Esq^{re}
Sam Stillman	" Daniel Jencks Esq^{re}	Hon'ble Joseph Wanton Jun Esq^{re}
Ruſsel Maſon	George Haszard Esq^{re}	~~Hon'ble John Gardner Esq^{re}~~
Elisha Reynolds	Nicholas Brown Esq^{re}	Hon'ble Samuel Ward Esq^{re}
osias Lyndon	" Jeremiah Niles Esq^{re}	Hon'ble William Ellery Esq^{re}
ob Bennet	" ~~Mr~~ John G Wanton Esq^{re}	" John Tillinghast Esq^{re}
phraim Bowen	" ~~Mr~~ Joshua Clark Esq^{re}	" Simon Pease Esq^{re}
Taylor Esq^{re}	" Rev^{d} Gardner Thurston	" James Honyman Esq^{re}
on^{a} Slade	" Rev^{d} John Greaves	" Nicholas Easton Esq^{re}
bert Strettell Jones	" Rev^{d} John Maxſon	" Nicholas Tillinghast Esq^{re}
ah Dunham Esq^{re}	" Rev^{d} John Gano	" Darius Sefsions Esq^{re}
ward Thurston Jun^{r}	" Rev^{d} Sam^{l} Winſor	" Joseph Harris Esq^{re}
leg Barker		

r ſuch or so many of them as ſhall qualify themselves as aforesaid hall be and they are hereby declared and established the ſirſt and resent Truſtees.— And that the Number of the Fellows inclusive f the President who ſhall always be a Fellow, ſhall and may be welve of which eight ſhall be for ever elected of the Denomination lled Baptists or Antipadobaptists, and the rest indifferently of any or l Denominations and that the

oshua Babcock Esq.	Rev^{d} Ezra Stiles	Rev. Edward Upham
M^{r} Thomas Eyres	Rev^{d} Sam^{l} Jones	Rev. Jeremiah Condy
M^{r} Thomas Haſzard	Rev^{d} James Manning	Rev. Marmaduke Brown
~~Honble~~	W^{m} Logan Esq^{re}	Rev. Morgan Edwards

r ſuch or so many of them as ſhall qualify themselves as aforesaid. hall be, and they are hereby declared the ſirſt and present Fellows nd Fellowship to whom the President when hereafter elected who hall forever be of the Denomination called Baptist or Antepedo aptist ſhall be Joined to compleat the Number. And furthermore is declared and ordained that the Succeſsion in both Branches ſhall all times hereafter be filled up and ſupplied according to these Numbers and this established and invariable Proportion from the espective Denominations by the ſeperate Election of both Branches

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Rev^{d} Ruſsel Mason	M^{r} John G. Wanton	Hon'ble Joseph Wanton Jun^{r} Esq^{re}
Col^{o} Elisha Reynolds	Rev^{d} Edward Upham	~~Honble John Gardner~~
Col^{o} Josias Lyndon	Rev^{d} Jeremiah Condy	Hon'ble Samuel Ward Esq^{re}
Col^{o} Job Bennet	Rev^{d} Marmaduke Brown	Hon'ble William Ellery Esq^{re}
M^{r} Ephraim Bowen	Rev^{d} Gardner Thurston	" John Tillinghast Esq^{re}
Joshua Clarke Esq^{re}	Rev^{d} Ezra Stiles	" Simon Pease Esq^{re}
Cap^{t} Jon^{a} Slade	Rev^{d} John Greaves	" James Honyman Esq^{re}
John Taylor Esq^{re}	Rev^{d} John Maxson	" Nicholas Easton Esq^{re}
M^{r} Robert Strettell Jones	Rev^{d} Sam^{l} Winſor	" Nicholas Tillinghast Esq^{r}
Azariah Dunham Esq^{re}	Rev^{d} John Gano	" Darius Seſsions Esq^{re}
M^{r} Edward Thurston J^{r}	Rev^{d} Morgan Edwards	" Joseph Harris Esq^{re}
M^{r} Thomas Eyres	Rev^{d} Isaac Eaton	" Francis Willet Esq^{re}
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		George Hazard Esq^{re}
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		" Jeremiah Niles Esq^{re}

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to be impleaded to Anſwer, and to be Answered unto, to defend and to be defended in all and singular Suits Cauſes Matters Actions and Doings of what kind soever & also to have take poſſeſs purchase acquire or otherwise receive & hold Lands Tenements Hereditaments, Goods Chattles or other Estates of all which they may and ſhall stand and be seized notwithstanding any Miſnomer of the College or the Corporation hereof and by what ever Name or however imperfectly the ſame ſhall be described in Giſt, Bequests and Aſsignments provided the true intent of the Aſsigner or Benefactor be evident. Also the ſame to grant demiſe alien lease use manage and improve according to the Tenor of the Donations, and to the Purposes Trusts & Uſes to which they ſhall be ſeized there of and full Liberty Power & Authority is hereby granted unto the said Truſtees & Fellows and their Succeſsors to found a College or Univerſity within this Colony for promoting the Liberal Arts and Universal Literature, and with the Monies Estates & Revenues of which they ſhall from time to time become legally Seized as aforesaid to Endow the ſame and erect the neceſsary Buildings & Edefices thereof on such Place within this Colony as they ſhall think Convenient: And Generally to regulate Order & Govern the ſame Appoint Officers & make Laws as herein after prescribed & hold use & enjoy all the Liberties Priviliges exemptions, Dignities & Immunities enjoy'd by any College or University whatever, And furthermore that the s^{d} Trustees & fellows & their Succeſsors ſhall & may forever hereafter have a public Seal to use for all Causes matters & affairs whatever of them and their Succeſsors and the ſame Seal to alter Break & make anew from time to time at their Will and Pleasure which Seal ſhall always be deposited with the President or Senior fellow and furthermore by the Authority aforesaid it is hereby enacted Ordained & declared that it is now and at all Times hereafter ſhall continue to be the unalterable Conſtitution of this College or University that the Corporation thereof shall consist of two Branches Viz: that of the Trustees & that of the fellowſhip with distinct ſeperate & respective powers, and that the Number of the Trustees ſhall and may be thirty ~~five~~ six of which twenty two ſhall forever be Elected of the Denomination called Baptists or Antipedobaptis Five ſhall for ever be elected of the Denomination called Friends or Quakers, four ſhall for ever be elected of the Denomination called Congregationalists, & ~~four~~ Five ſhall

And ſtill the more clearly to define and Aſcertain the Respective Powers of the two Branches on making and enacting Laws, it is further Ordained and Declared that the Fellowſhip ſhall have Power and are hereby impowered from time to time and all times hereafter to make Enact and Publiſh all ſuch Laws Statutes Regulations and Ordinances with Penalties as to them ſhall ſeem meet for the ſucceſful Instruction and Government of said College or University not contrary to the Spirit Extent, true Meaning and Intention of the Acts of the British Parliament or the Laws of this Colony, and the ſame Laws, Statutes and Ordinances to Repeal, which Laws and the Repeals thereof, ſhall be laid before the Truſtees, and with their Approbation ſhall be of Force and Validity but not otherwise, and further the Truſtees and Fellows at their Meetings aforesaid ſhall aſcertain the Salaries of the Respective Officers and Order the Monies aſseſsed on the Students, for Tuition Fines and Incidental Expences to be Collected by the Steward or ſuch other Officer as they ſhall appoint to Collect the ſame, and the ſame with their Revenues and other College Estates in the Hands of the Treaſurer to appropriate, in discharging Salaries and other College Debts and the College Accounts shall be Annually Audited and Adjusted in the Meeting of the Corporation and furthermore it is hereby enacted and declared that into this Liberal & Catholic Inſtitution ſhall never be admitted any Religious Tests but on the Contrary all the Members hereof ſhall for ever enjoy full free Absolute and uninterrupted Liberty of Conscience and that the Places of Profeſsors, Tutors and all other Officers the Preſident alone excepted ſhall be free and open for all Denominations of Protestants and that Youths of all Religious Denominations ſhall and may be freely admitted to the Equal Advantages Emoluments & Honors of the College or Univerſity and ſhall receive a like fair generous & equal Treatment, during their Residence therein, they conducting themſelves peaceably and conforming to the Laws and Statutes thereof: And that the Public teaching ſhall in general Respect the Sciences and that the Sectarian differences of opinions, ſhall not make any Part of the Public and Classical Inſtruction, altho' all Religious Controversies may be ſtudied freely examined and explained by the President Profeſsors and Tutors in a personal ſeperate and distinct manner, to the Youth of any or each Denomination and above all a constant Regard be paid to and effectual Care taken of the Morals

of the College and furthermore for the honour & encouragement of Literature we conſtitute and declare the Fellowship aforesaid a learned faculty and do hereby give grant unto and invest them & their Succeſsors with full Power & Authority, and they are hereby Author-iz'd & impowered by their President & in his Abſence by the Senior Fellow or one of the Fellows appointed by themſelves at the Anniversary Commencements or at any other times and at all Times hereafter to Admit to & Conferr any & all the Learned Degrees which can or ought to be given and conferred in any of the Colleges & Univerſities in America ~~Europe & particularly in the University in Cambridge & Edinbourgh in Great Britain)~~ or any ſuch other Degrees of Literary Honor as they ſhall devise upon any and all ſuch Candidates and Perſons as the President and Fellows or Fellowſhip ſhall Judge worthy of the Academical Honors, which Power of conferring Degrees is hereby restricted to the Learned Faculty, who ſhall or may Iſsue Diplomas or Certificates of ſuch Degrees or conferr Degrees by Diplomas and Authenticate them with the Public Seal of the Corporation, and the Hands of the President and Secretary, and of all the Profeſsors as Witneſses and deliver them to the Graduates as Honorable and Perpetual Testimonies, and furthermore for the greater Encouragement of this Seminary of Learning and that the ſame may be amply endow'd and enfranchised with the ſame priviledges Dignities and Immunities, enjoy'd by the American Colleges and European Univerſities, we do grant enact Ordain and Declare and it is hereby granted Enacted Ordained and Declared that the College Estate, the Estates Perſons and Families of the President and Profeſsors for the Time being lying and being within the Colony with the Perſons of the Tutors ~~Graduates~~ and Students during their Residence at the College ſhall be freed and exempted from all Taxes, ſerving on Juries and Menial Services, and that the Persons aforesaid ſhall be exempted from bearing Arms Impreſses and Military Services except in Case of an Invaſion And furthermore for eſtabliſhing the perpetuity of this Corporation and in caſe that at any time hereafter through oversight or otherwiſe through misapprehensions and mistaken Constructions of the Powers Liberties and Franchises herein contained any Laws should be enacted or any matters done and transacted by this Corporation contrary to the tenor of this Charter it is hereby enacted ordained and declared that all such Laws Acts and Doings shall be in themselves null and

void : yet nevertheleſs the same shall not in any Courts of Law or by the Gen^{rl} Aſsembly be deemed taken interpreted or adjudged into an avoidance, defeazance or forfeiture of this Charter but that the same shall be and remain unhurt inviolate and entire unto the said Corporation in perpetual Succeſsion, which Corporation may at all times and forever hereafter proceed & continue to Act ; and all their Acts conformable to the Powers, tenor, true intent and Meaning of the Charter shall be and remain in full force and validity, the nullity and avoidance of any such illegal Acts to the Contrary in any wiſe notwithstanding— and laſtly, We the Governor and Company aforesaid do for ourselves and our Succeſsors, forever hereby enact, Grant & confirm unto the said Truſtees and Fellows and to their Succeſsors that this Charter of Incorporation and every part thereof shall be good and available in all things in the Law according to our true Intent and meaning, and shall be construed, repũed & adjudged in all caſes moſt favorably on the behalf and for the beſt benefit and behoof of the said Truſtees and Fellows and their Succeſsors so as most effectually to answer the valuable Ends of this uſefull Inſtitution——

In full Teſtimony of which Grant and of all the Articles and matters therein contained, the said Governor & Company do hereby order that this Act shall be Signed by the Governor and Secretary and Sealed with the publick Seal of this Colony and Registerd in the Colonys Records and that the Same or an exemplification thereof shall be a sufficient Warrant to the said Corporation to hold, uſe and exerciſe all the Powers, Franchiſes and Immunities herein contained—

March 2^{d} 1764

To the Houſe of Mag^{sts}

Gen^{l} Resolvd that the aforewritten Paſs as an Act of this Aſsembly

Noted & paſsd Nemine Contradicente
& ordrd Josias Lyndon Clerk

In the Upper House
Read on the Third and concurred Nemine Contradicente
By Ord. Henry Ward Secr'y

NOTE.—The above is in all respects an exact reproduction of the original Copy of the Charter in the office of the Secretary of the State of Rhode Island, in Providence.

On September 4, 1782, the Corporation omitted from the engagement to be taken by new members the acknowledgment of allegiance to the British Crown, at the same time ordering broken the old seal of the College, which contained the busts of the king and queen of Great Britain. The present seal, of which this volume bears the imprint, was adopted on September 3, 1834.

In the spring of 1764, Rev. James Manning, a recent graduate of the College of New Jersey, opened a Latin School at Warren, Rhode Island, as a step preparatory to the work of college instruction. In September, 1765, he was formally appointed by the Corporation "President of the College, Professor of Languages and other branches of learning, with full power to act in these capacities at Warren or elsewhere." The first Commencement was held at Warren, in September, 1769. In the spring of 1770 the College was moved to Providence. The corner-stone of the first building, still standing as the venerable University Hall, was laid on the fourteenth of May, in that year. During the Revolutionary War college studies were suspended, and the building was used by the American and French forces for barracks and a hospital. At its meeting on Thursday, September 6, 1804, in view of distinguished beneficence to the College on the part of Mr. Nicholas Brown, the Corporation, under the power conveyed by the charter to change the title, voted, "That this College be known in all future time by the name of Brown University in Providence, in the State of Rhode Island and Providence Plantations."

In 1863, the General Assembly of the State of Rhode Island passed an Act, subject to the consent of the Corporation which was at once cordially given, limiting the exemption from taxation of the estates, persons and families of the President and Professors to the "amount of ten thousand dollars for each of such officers, his estates, person and family included."

CONDITIONS OF ADMISSION TO THE UNIVERSITY

ADMISSION TO SELECT COURSES

The instruction furnished by the University is open to all young men of good character who are able and willing to profit by it. While every student who can conveniently do so is for his own good urged to matriculate for some one of the various degrees, this is by no means necessary; and such as do not do it are no less welcome to the advantages of the University than are candidates for degrees. It is the policy of the University to encourage all faithful students who enter for short periods. For such, special pains is taken to arrange profitable courses of study covering single terms, two terms, a year, or two years, according to circumstances. Each course of this kind must have the approval of the Faculty, and, except in special cases, will require attendance in the class-room for at least sixteen hours a week. The candidate must be familiar with the subjects preliminary to the studies which he proposes to pursue. He must sustain creditable examinations in all his college studies at the close of each term. Upon later pages of this Catalogue are exhibited a few groups of courses specially appropriate for students who intend to enter professional schools. While primarily meant to guide candidates for degrees, these minor curricula, faithfully pursued, afford admirable preparation for professional study to such as find it for any reason impossible to earn collegiate degrees. On leaving the University special students who desire them receive formal certificates of their attainments.

ADMISSION TO COURSES LEADING TO DEGREES

The regular examinations for admission to the FRESHMAN CLASS take place on Thursday, Friday, and Saturday of Commencement week, June 29, 30, and July 1, 1893, beginning at 9 o'clock A. M. on Thursday. *Candidates must be in attendance during the three days.*

These examinations occur in the South Room of Rhode Island Hall, *where all the candidates are to assemble on Thursday, at 8.30 A. M., to be registered.*

The order of the examinations will be:

THURSDAY, JUNE 29.

Greek, from 9 A. M. to 12.30 P. M.
Latin, from 2.30 to 6 P. M.

FRIDAY, JUNE 30.

Mathematics, from 8.15 A. M. to 12.30 P. M.
French, from 3 to 5 P. M.
German, from 3 to 5 P. M.

SATURDAY, JULY 1.

English, from 9 to 11 A. M.

There will be, as follows, a second examination in each of the above branches, on Monday and Tuesday, September 18 and 19, 1893. *Applicants must be in attendance on both days.*

MONDAY, SEPTEMBER 18.

German, South Room, R. I. Hall, from 9 to 11 A. M.
French, North Room, R. I. Hall, from 9 to 11 A. M.
English, South Room, R. I. Hall, from 11.30 A. M. to 1 P. M.
Mathematics, North Room, R. I. Hall, from 2 to 6 P. M.

TUESDAY, SEPTEMBER 19.

Latin, North Room, R. I. Hall, from 8 to 10.30 A. M.
Greek, South Room, R. I. Hall, from 11 A. M. to 1.30 P. M.

For admission to ADVANCED STANDING, candidates must be examined in the studies already pursued by the respective classes which they propose to enter. These examinations will be held in Rhode Island Hall, on Monday and Tuesday, September 18 and 19.

No student can be admitted as a candidate for matriculation unless he brings suitable testimonials of a good moral character. If from another college, he must also present a certificate of his standing in the college which he has left, and of regular dismission from it.

If desired, examinations will be appointed in cities remote from Providence. Correspondence on this subject should be addressed to the President of the University.

Pupils from schools of known excellence are admitted to the Freshman Class without examination, on the certificates [not diplomas] of the Principals of these schools. Upon application by the Principals of the schools from which pupils are received in this manner, the University furnishes blank forms for these certificates.

Members of the Freshman Class are matriculated at the beginning of the second term, till which time all of them, however admitted, are regarded as on probation.

For the Courses for the Degree of Bachelor of Arts

Candidates for admission to the Freshman Class are examined in the following subjects; but real equivalents will be received for any of the Latin or Greek works mentioned:

I, Greek. 1 Greek Grammar. 2 The whole of Xenophon's Anabasis, or four books of the Anabasis and three books of Homer. 3 The first twenty exercises of Arnold's Greek Prose Composition, or the first twenty-five exercises of Jones's Greek Prose Composition. 4 The general history of Greece to the death of Alexander.

NOTE — In place of the examination in four books of the Anabasis and three of Homer, candidates may, at their option, substitute an examination in translating at sight passages of ordinary difficulty from the works of Xenophon and from Homer. Candidates thus examined will be supplied with a vocabulary of the less usual words.

II, Latin. 1 Caesar, Gallic War, books i-iv, or books i-iii and Sallust's Catiline, with questions on the subject-matter and on grammar. 2 Ovid, twenty-five hundred lines. 3 Cicero, the Orations against Cati-

line, and the Oration for Archias, with questions, as on Caesar. 4 Vergil, Aeneid, books i–vi, or Aeneid, books i–v and the Eclogues, with questions on the subject-matter and on prosody. 5 Translation, at sight, of ordinary passages from Caesar, Cicero's Orations, Vergil's Aeneid, and Ovid's Metamorphoses, with questions on grammar, prosody, history, and antiquities, suggested by the passages assigned. 6 Translation into Latin of simple English sentences. 7 Translation into Latin of a continuous passage of English narrative, prepared from some portion of the prescribed prose. 8 Outlines of Roman Geography, and of Roman History to the end of the reign of Marcus Aurelius. It is recommended that pupils be accustomed, from the beginning of their preparatory course, to translate into Latin, both oral and written, passages prepared by the teachers on the basis of the prose authors read.

In pronouncing Latin, it is recommended that *ā* be pronounced as in *father*, *ă* as the *a* in *Cubă*; *ē* as in *prey*, *ĕ* as in *men*; *ī* as in *machine*; *ĭ* as in *cigar*; *ō* as in *old*, *ŏ* as in *obey*; *ū* as in *rule*, *ŭ* as in *full*; *j* as *y* in *yard*; *c* always as *k* in *king*; *g* always as *g* in *get*.

Instructors in preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Greek and Latin.

III, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

IV, English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation, and spelling.

In 1893 the subject will be taken from one of the following works:

Shakspere's Julius Caesar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

In 1894 the list will be Shakspere's Julius Caesar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens's David Copperfield.

In 1895, Shakspere's Merchant of Venice and Twelfth Night, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, the Sir Roger de Coverley Papers in the Spectator, Macaulay's Essay on Milton and on Addison, Webster's First Bunker Hill Oration, Irving's Sketch Book, and Scott's Abbot.

In 1896, Shakspere's Merchant of Venice and Midsummer Night's Dream, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, Macaulay's Essay on Milton, Webster's First Bunker Hill Oration, De Foe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, George Eliot's Silas Marner.

V, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs; and of the more usual irregular verbs such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire*, and *craindre*.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work necessarily depends. Mastery of Professor Whitney's Brief French Grammar will be regarded as sufficient.

2 Ability to translate simple prose at sight.

It is believed that the required facility can be gained by reading concurrently with the work of the grammar from two hundred to four hundred duodecimo pages out of at least three dissimilar works, but care should be taken not to read works assigned in the college courses.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent reading of the French works used in the class-room.

In place of the above requirements in French, the following may be offered:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

The mention of these topics is not proposed as restrictive, but is meant rather to emphasize the importance of a thorough grounding of the pupil in those elements on which future good work depends. Mastery of Professor Whitney's Brief German Grammar will be regarded as sufficient.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

It is believed that the required facility can be gained by reading concurrently with the work in the grammar, two hundred duodecimo pages of easy German, chiefly narrative prose, with a few lyric poems, but care should be taken not to read the works assigned in the college courses.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

It is recommended that from the beginning careful attention be given to the fluent and intelligent reading of the German works used in the class-room.

Preliminary Examinations

In the Preparatory studies named below, candidates may be examined one year before the time at which they intend to apply for admission to the Freshman Class. These examinations will occur, for 1893, on Thursday, June 29, *and then only*. They will be held in the *South Room of Rhode Island Hall*, and in the following order:

Greek, from 9 A. M. to 12.30 P. M.
Latin, from 2.30 to 5.30 P. M.

The subjects will be:

I, In Greek

1 Greek Grammar.
2 Three books of Xenophon's Anabasis.

II, In Latin

1 Latin Grammar.
2 Caesar, or Caesar and Sallust, as on page 34.
3 Translation into Latin of simple sentences.
4 Ovid, or Cicero, or Vergil, as on pages 34, 35.

For the Courses for the Degree of Bachelor of Philosophy

Courses of instruction for this degree, as for that of Bachelor of Arts, embrace four years. Here certain studies are elective from the beginning, two main courses being offered to candidates, one including classical studies, the other omitting these and presenting a larger number of mathematical and scientific studies. Both courses are susceptible of ample variation through election.

Candidates for admission to a course including *Greek* are examined in all the Greek subjects specified on page 34. They are also examined in all of the subjects, except the Latin, in the list below.

Candidates for admission to a course including *Latin* are examined in all the Latin subjects specified on pages 34 and 35. They are also examined in all the subjects, except the Latin, in the list below.

Candidates for admission to a course *omitting* classical studies are examined in the following subjects :

I, Latin. *Five* books of Caesar, or its equivalent in Cicero or in Vergil.

II, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

III, English. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation, and spelling.

In 1893 the subject will be taken from one of the following works:

Shakspere's Julius Caesar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

For the subjects for 1894, 1895, and 1896, see pages 35 and 36.

IV, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire*, and *craindre*.

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

The following course will be accepted instead either of the French or of the Latin required of candidates for the Degree of Bachelor of Philosophy:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

For further remarks on the requirements in French and German, see pages 36 and 37.

For the Course for the Degree of Bachelor of Science

The course of study leading to the degree of Bachelor of Science is intended for those who have carried their preparatory studies in Mathematics and Modern Languages farther than candidates for the degree of Bachelor of Arts have done, and who wish in College to make a specialty of Mathematics and the Natural Sciences. The requirements for admission to this course are:

I, Mathematics. 1 Algebra through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry. 3 Solid and Spherical Geometry. 4 Plane Trigonometry, with the use of logarithmic and trigonometric tables.

II, English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation, and spelling.

In 1893 the subject will be taken from one of the following works: Shakspere's Julius Caesar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens's David Copperfield.

Candidates are expected to be familiar with all of the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

For the subjects for 1894, 1895, and 1896, see pages 35 and 36.

III, Languages. Any two of the following three :

A, *French.* 1. Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraître*, *conduire*, and *craindre*.

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

B, *German.* 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics : Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs ; the more common prepositions; the simpler uses of the modal auxiliaries ; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

3 Ability to pronounce German and to recognize German words and simple phrases when uttered.

For further remarks on these French and German requirements see pages 36 and 37.

C, *Latin.* Five books of Caesar, or the equivalent thereof in Cicero or in Vergil.

IV, History. 1 The general history of Greece to the death of Alexander. 2 Roman history to the end of the reign of Marcus Aurelius.

For the Courses for the Degree of Civil and of Mechanical Engineer

The course of study leading to the degree of Civil Engineer and the course leading to that of Mechanical Engineer are intended for those who, not having studied the Classics, have carried their studies in Mathematics and Modern Languages as far as candidates for the degree of Bachelor of Arts or Bachelor of Science have done, and who wish in College to pur-

sue subjects relating to the applications of Mathematics in the various branches of Engineering. The course for the Degree of Mechanical Engineer is new. It is expected that students will be matriculated for it in 1893. The requirements for admission to either of these courses are:

I, Mathematics. 1 Algebra, through Equations of the Second Degree, including Arithmetical and Geometrical Progression and the use of the Binomial Formula. 2 Plane Geometry.

II, English Composition. Candidates will each be required to write a brief composition upon a subject assigned at the time of examination. These compositions must be correct in expression and division into paragraphs, as well as in grammar, punctuation, and spelling.

In 1893 the subject will be taken from one of the following works: Shakspere's Julius Caesar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens's David Copperfield.

Candidates are expected to be familiar with all the above works.

Specimens of incorrect English will also be assigned for correction, and tests of accuracy in pronunciation will be made.

For the subjects for 1894, 1895, and 1896, see pages 35 and 36.

III, French. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Inflection of nouns and adjectives in gender and number; the pronominal adjectives; the use of pronouns, especially the forms and positions of personal pronouns; the partitive constructions; the inflection of the regular verbs, and of the more usual irregular verbs such as *dire*, *faire*, and the classes represented by *ouvrir*, *sentir*, *venir*, *paraitre*, *conduire*, and *craindre*.

2 Ability to translate simple prose at sight.

3 Ability to pronounce French, and to recognize French words and simple phrases when uttered.

In place of the above requirements in French, the following may be offered:

German. 1 Proficiency in Elementary Grammar, implying, especially, familiarity with the following topics: Declension of such nouns as are readily classified, of adjectives and pronouns; conjugation of weak and of the more usual strong verbs; the more common prepositions; the simpler uses of the modal auxiliaries; the simpler rules of syntax and of word order.

2 Ability to translate a passage of simple prose at sight, a vocabulary of the less usual words being furnished.

3 Ability to pronounce German, and to recognize German words and simple phrases when uttered.

For remarks on these French and German requirements see pages 36 and 37.

IV, History. 1 The general history of Greece to the death of Alexander. 2 Roman history to the end of the reign of Marcus Aurelius.

NOTE.—Students, on all courses, who present German for entrance are required to take one year of German in College.

THE COURSES OF INSTRUCTION*

The courses of instruction for undergraduates form a system of studies partly required and partly elective. The studies of the Freshman year are nearly all required, the main exception being that candidates for the degree of Bachelor of Philosophy have a choice of courses according as they do or do not wish to pursue the study of an ancient language. The required studies of the Freshman year are selected for their disciplinary value, that the student may the more profitably pursue those, whatever they may be, of the subsequent years. During the last three years large liberty in the choice of studies is allowed, particularly in the case of candidates for the degrees of Bachelor of Arts and Bachelor of Philosophy. The required studies for these degrees during these years are restricted to English, History, and Philosophy, some acquaintance with which is deemed necessary for every student who is to receive a collegiate degree. Candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer are allowed less freedom of election, in order that they may thoroughly master the branches necessary for the most perfect discipline in their respective departments.

The elective studies, which are very numerous, are so placed in the curriculum as to give all the freedom of choice which the necessary limitations of the schedule of lectures admit. In arranging this schedule a number

* Instruction for graduate students is treated by itself in a later paragraph. A special circular relating to the same may be had on application to the Registrar.

of parallel courses, each unitary and progressive and extending through the last three years, are made available. Every student is advised in selecting his studies to adopt, in the main, one of these courses.

Attention is also directed to a later paragraph entitled "Courses Suggested as Desirable for Students Preparing for Professions."

In addition to the regular courses of instruction, special honor courses are offered, which are open, under certain conditions, to students willing to do large extra work in their particular departments. These honor courses, fully described in a later paragraph, mainly consist of special reading supplemented by problems and essays. Examinations in them are held at the option of the several professors.

THE COURSES OF INSTRUCTION

ARRANGED ACCORDING TO YEARS AND TERMS

For Candidates for the degree of Bachelor of Arts

Freshman Year

First Term	*Second Term*	*Third Term*
Greek 1,	Greek 2,	Greek 3,
Latin 1,	Latin 2,	Latin 3,
French 1,	French 2,	French 3,
Mathematics 1,	Mathematics 2,	Mathematics 3,
General Lecture,	Rhetoric 1,	Physiology 1,
Military Drill.	Military Drill,	Military Drill.
	Gymnasium.	

Sophomore Year

Rhetoric 2,	Rhetoric 3,	Rhetoric 1,
Elocution 1,	Elocution 2,	Elocution 3,
German 1,	German 2,	German 3,
Military Drill,	Military Drill,	Military Drill,
Electives (nine hours).	Gymnasium,	Electives (nine hours).
	Electives (nine hours).	

Junior Year

Philosophy 2,	Philosophy 3,	Philosophy 19,
History 1,	History 2,	Orations,
Orations,	Orations,	Electives (twelve
Electives (nine hours.)	Gymnasium,	hours).
	Electives (nine hours).	

Senior Year

After 1892-93 the work in the Senior year, with the exception of Gymnasium practice, will consist entirely of electives, fifteen hours per week being required.

In 1892-93 Philosophy 2 and English 2 (one hour), will be required during the Second Term, Junior year; and Philosophy 3, Philosophy 19 (two hours), and English 3 (one hour), during the Third Term.

During the Senior year Philosophy 5, 6, 7 will be required.

For Candidates for the Degree of Bachelor of Philosophy

Freshman Year

First Term	*Second Term*	*Third Term*
Mathematics 1,	Mathematics 2,	Mathematics 3,
French 1 or German 4.	French 2 or German 5,	French 3 or German 6,
General Lecture,	Rhetoric 1,	Physiology 1,
Military Drill.	Military Drill,	Military Drill.
	Gymnasium.	

And two of the following groups:

A	Botany 1, Drawing 2,	Botany 2, Drawing 3,	Botany 3, Drawing 4,
B	Drawing 1.	Drawing 5,	Drawing 6.
C	Rhetoric 2, Elocution 1,	Rhetoric 3, Elocution 2,	Rhetoric 4, Elocution 3,
D	Greek 1,	Greek 2,	Greek 3,
E	Latin 1.	Latin 2.	Latin 3.

Sophomore Year

Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Elocution 1,	Elocution 2,	Elocution 3,
German 1,	German 2,	German 3,
Military Drill,	Military Drill,	Military Drill,
Electives (nine hours).	Gymnasium,	Electives (nine hours).
	Electives (nine hours).	

Students taking Rhetoric and Elocution during Freshman year will take thirteen hours of electives each term.

Junior Year

Philosophy 2,	Philosophy 3,	Philosophy 19,
History 1,	History 2,	Orations,
Orations,	Orations,	Electives (twelve hours).
Gymnasium,	Gymnasium,	
Electives (nine hours).	Electives (nine hours).	

Senior Year

After the year 1892-93 the work in the Senior year, with the exception of Gymnasium practice, will consist entirely of electives, fifteen hours per week being required.

In 1892-93 Philosophy 2 (two hours) and English 2 (one hour) will be required during the Second Term, Junior year; and Philosophy 3, Philosophy 19 (two hours), and English 3 (one hour), during the Third Term.

During the Senior year Philosophy 5, 6, 7 will be required.

For Candidates for the Degree of Bachelor of Science

Freshman Year

First Term	*Second Term*	*Third Term*
Mathematics 4,	Mathematics 6,	Mathematics 7,
Mathematics 5,	Mathematics 10,	Mathematics 12,
Mathematics 9,	French 2 or German 5,	French 3 or German 6,
French 1 or German 4,	Rhetoric 1,	Physiology 1,
General Lecture,	Military Drill,	Military Drill.
Military Drill.	Gymnasium.	

And two of the following groups :

A	Botany 1, Drawing 2,	Botany 2, Drawing 3,	Botany 3, Drawing 4,
B	Drawing 1,	Drawing 5,	Drawing 6,
C	Rhetoric 2, Elocution 1,	Rhetoric 3, Elocution 2,	Rhetoric 4, Elocution 3,
D	Greek 1,	Greek 2,	Greek 3,
E	Latin 1.	Latin 2.	Latin 3.

Sophomore Year

Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Elocution 1,	Elocution 2,	Elocution 3,
German 1,	German 2,	German 3,
Mechanics 1,	Mechanics 2,	Mechanics 5,
Chemistry 1,	Chemistry 2,	Chemistry 3,
Military Drill.	Military Drill, Gymnasium.	Military Drill.

And one of the following : *

Mathematics 13,	Mathematics 8,	Mathematics 11,
Surveying 1,	Surveying 2,	Surveying 3,
French 4,	French 5,	French 6,
German 4,	German 5,	German 6,
Botany 1.	Botany 2.	Botany 3.

Junior Year

Philosophy 2,	Philosophy 3,	Philosophy 19,
History 1,	History 2,	Orations,
Orations,	Orations,	*And four of the following electives :*
Gymnasium,	Gymnasium,	
And three of the following electives :	*And three of the following electives :*	

* Students who have taken Rhetoric and Elocution during the Freshman year take seven hours of electives.

First Term	*Second Term*	*Third Term*
Mathematics 14,	Mathematics 15,	Mathematics 16,
Mechanics 3,	Mechanics 4,	Mechanics 5,
Surveying 1,	Surveying 2,	Surveying 3,
Astronomy 1,	Astronomy 3,	Astronomy 4,
Chemistry 4,	Chemistry 5,	Chemistry 6,
Physics 9,	Physics 10,	Physics 11,
Botany 1,	Botany 2,	Botany 3,
Spanish 1,	Spanish 2,	Spanish 3,
Italian 1,	Italian 2,	Italian 3,
History 4.	History 5.	History 6.

SENIOR YEAR

Five of the following electives:

Philosophy 5,	Philosophy 6,	Philosophy 7,
Philosophy 8,	Philosophy 9,	Philosophy 10,
English 4,	English 5,	English 6,
History 4 or 7,	History 5 or 8,	History 6 or 9,
Political Science 1,	Political Science 2,	Political Science 3,
Political Economy 1,	Political Economy 2,	Political Economy 3,
Mathematics 14,	Mathematics 15,	Mathematics 16,
Mechanics 3,	Mechanics 4,	Mechanics 5,
Surveying 1,	Surveying 2,	Surveying 3,
Zoölogy 3,	Zoölogy 4,	Anthropology 1,
Geology 1,	Geology 2,	Meteorology 1,
Spanish 1,	Spanish 2,	Spanish 3,
Italian 1.	Italian 2.	Italian 3.

For required work of Junior and Senior years during 1892–93, see note at bottom of page 45.

For Candidates for the Degree of Civil Engineer

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 1,	Mathematics 2.	Mathematics 3,
French 1 or German 4,	French 2 or German 5,	French 3 or German 6,
Drawing 2,	Drawing 3,	Drawing 4,
Drawing 1,	Drawing 5,	Drawing 6,
Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Elocution 1,	Elocution 2,	Elocution 3,
General Lecture.	Rhetoric 1.	Physiology 1.

SOPHOMORE YEAR

First Term	*Second Term*	*Third Term*
French A or German 1,*	French A or German 2,*	French A or German 3,*
Mathematics 9,	Mathematics 10,	Mathematics 12,
Physics 1,	Physics 2,	Physics 3,
Surveying 1,	Surveying 2,	Surveying 3,
Chemistry 1,	Chemistry 2,	Chemistry 3,
Drawing 7.	Drawing 8.	Drawing 9.

JUNIOR YEAR

Philosophy 2,	Philosophy 3,	Philosophy 19,
Mechanics 3,	Mechanics 4,	Mechanics 5,
Mathematics 13,	Mathematics 14,	Surveying 4,
Astronomy 1,	Astronomy 3,	Astronomy 4,
Physics 9,	Physics 10,	Physics 5, } *alternate*
Railroads and Highways 1.	Railroads and Highways 2.	Masonry, } *years*
		Railroads and Highways 3.

SENIOR YEAR

Mechanics 6,	Mechanics 7,	Physics 5, } *alternate*
Geology 1,	Geology 2,	Masonry, } *years*
Physics 6,	Physics 7,	Hydraulics 2,
Surveying 5,	Hydraulics 1,	Geology 1,
Structures,	Structures.	Structures,
Materials.		Thesis.

For Candidates for the Degree of Mechanical Engineer

FRESHMAN YEAR

First Term	*Second Term*	*Third Term*
Mathematics 1,	Mathematics 2,	Mathematics 3,
French 1 or German 4,	French 2 or German 5,	French 3 or German 6,
Drawing 1,	Drawing 5,	Drawing 6,
Drawing 2,	Drawing 3,	Drawing 4,
Rhetoric 2,	Rhetoric 3.	Rhetoric 4,
Elocution 1.	Elocution 2.	Elocution 3.

* Students who pursue French 1, 2, 3 during Freshman year must take German 1, 2, 3 during Sophomore year. Those who pursue German 4, 5, 6 during Freshman year must take French A during Sophomore year. This note applies also to students on the Mechanical Engineering course.

SOPHOMORE YEAR.

First Term.	*Second Term*	*Third Term.*
Mathematics 9,	Mathematics 10,	Mathematics 12,
Chemistry 1,	Chemistry 2,	Chemistry 3,
French or German,	French or German,	French or German,
Physics 1,	Physics 2,	Physics 3,
Kinematics,	Drawing 8,	Drawing 9,
Shopwork.	Shopwork.	Shopwork.

JUNIOR YEAR

Philosophy 2,	Philosophy 3,	Philosophy 19,
Mechanics of Engineering,*	Mechanics of Engineering,*	Mechanics of Engineering,*
Mathematics 13,	Mathematics 14,	Steam Engines and Boilers,*
Materials of Engineering,	Thermo-dynamics,*	Laboratory Methods,
Physical Laboratory,	Engineering Laboratory,	Engineering Laboratory,
Drawing 10,	Physical Laboratory,	Physical Laboratory,
Shopwork.	Drawing 11.	Drawing 12.

SENIOR YEAR

Mechanics of Engineering,*	Mechanics of Engineering,*	Thesis Work.
Engineering Laboratory,	Engineering Laboratory,	Steam Engineering,*
Physical Laboratory,	Physical Laboratory,	Engineering Laboratory,
Machine Design and Drawing,	Machine Design and Drawing,	Original Design.
Surveying,	Dynamics of Machines,*	
Shopwork.	Shopwork.	

NOTE.—The studies of the Junior and Senior years on the courses for the degrees of Civil Engineer and Mechanical Engineer are subject to modification.

* These courses will not be offered during 1893–94.

Elective Courses

First Term

Philosophy 4* Sr.
Philosophy 20* Sr.
" 8 Sr.
" 11 Sr.
" 5 Sr.
Greek 4 So.
" 7 Jr. Sr.
" 11 Sr.
Latin 4 So.
" 7* Jr. Sr.
" 10 Jr. Sr.
" 11 Jr. Sr.
Fine Arts 1 Jr. Sr.
" " 4* Jr. Sr.
Hebrew 1 Jr. Sr.
" 4 Jr. Sr.
" 7 Jr. Sr.
Arabic 1 Jr. Sr.
Assyrian 1 Jr. Sr.
Oriental History 1 Jr. Sr.
Rhetoric 5 Jr. Sr.
English 12* Jr. Sr.
" 24 Jr. Sr.
" 27* So. Jr.
" 4 Jr. Sr.
" 18 Jr. Sr.
" 7 So. Jr.
" 20 Sr.
History 4 Jr. Sr.
" 7 Sr.
Political Science 1 Jr. Sr.
Social Science 1 Jr. Sr.
Political Economy 1 Jr. Sr.
Political Economy 4 Sr.
German 4 Jr. Sr.
" 7 Sr.
" 16 Jr. Sr.
" 10 Jr. Sr.
" 13 Sr.
" 19 Sr.
Dutch* Jr. Sr.
French A.*
" 4 So. Jr. Sr.
" 7 So. Jr. Sr.
" 13 So. Jr. Sr.
" 22 * Sr.
" 10 Sr.
" 28 Sr.
" 16 Sr.
" 19 Sr.
" 25* Sr.
Italian 1 So. Jr. Sr.
" 4 Jr. Sr.
" 7 * Jr. Sr.
Spanish 1 So. Jr. Sr.
" 4 Jr. Sr.
Mathematics 9 So. Jr. Sr.
Mathematics 13 Jr. Sr.
" 15 Sr.
Mechanics 1 So. Jr. Sr.
Mechanics 3 Jr. Sr.
Drawing 1 So. Jr. Sr.
Drawing 16 So. Jr. Sr.
Drawing 2 So. Jr. Sr.
Drawing 7 So. Jr. Sr.
" 10 Jr. Sr.
" 15 So. Jr. Sr.
Civil Engineering 1 So. Jr. Sr.
Civil Engineering 5 Jr. Sr.
Civil Engineering 6 Jr. Sr.
Civil Engineering 12 Jr. Sr.
Civil Engineering 15 Jr. Sr.
Chemistry 1 So.
" 4 Jr.
" 7 Sr.
" 10 Sr.
Physics 1 So. Jr.
" 6 So. Jr. Sr.
" 9 Jr. Sr.
Astronomy 1 Jr. Sr.
Geology 1 Sr.
Comparative Anatomy 3 Sr.
Physiology 2 Jr.
Botany 1 So.
" 4 So. Jr. Sr.

* Omitted in 1892–93.

'So.' means that the study opposite which it is placed is open to election by members of the Sophomore Class, subject to the conditions prescribed for each course. In the same way 'Jr.' and 'Sr.' refer to Juniors and Seniors. In selecting the studies for any particular term the student is advised to note carefully the courses of subsequent terms, in order to pursue the courses which he elects according to an orderly and progressive plan. It is usually far better to pursue a series of related subjects continuously rather than to remit them for others for a time and then resume. Further, when a study is open to students of several years, it is not intended that those of the first year named should consider themselves obliged or expected to take it in that year.

Second Term

Philosophy 21 Sr.
" 9 Sr.
" 12 Sr.
" 6 Sr.
" 16 Sr.
" 17 Sr.
Greek 5 So.
" 8 Jr. Sr.
" 12 Sr.
Latin 5 So.
" 8* Jr. Sr.
" 10 Jr. Sr.
" 12 Jr. Sr.
Fine Arts 2 Jr. Sr.
" " 5 Jr. Sr.
Hebrew 2 Jr. Sr.
" 5 Jr. Sr.
Aramaic 1 Jr. Sr.
Arabic 2 Jr. Sr.
Assyrian 2 Jr. Sr.
Oriental History 2 Jr. Sr.
Rhetoric 6 Jr. Sr.
English 10 So. Jr. Sr.
" 13* Jr. Sr.
" 25 Jr. Sr.
" 28* So. Jr.
" 5 Jr. Sr.
" 19 Jr. Sr.
" 8 So. Jr.
" 21 Sr.
History 5 Jr. Sr.
" 8 Sr.
Political Science 2 Jr. Sr.
Social Science 2 Jr. Sr.
Political Economy 2 Jr. Sr.
Political Economy 7 Sr.
German 5 Jr. Sr.
" 8 Sr.
" 17 Jr. Sr.
" 11 Jr. Sr.
" 14 Sr.
" 20 Sr.
Dutch* Jr. Sr.
French A*
" 5 So. Jr. Sr.
" 8 So. Jr. Sr.
" 14 So. Jr. Sr.
" 23* Sr.
" 11 Sr.
" 29 Sr.
" 17 Sr.
" 20 Sr.
" 26* Sr.
Italian 2 So. Jr. Sr.
" 5 Jr. Sr.
" 8* Jr. Sr.
Spanish 2 So. Jr. Sr.
" 5 Jr. Sr.
Mathematics 10 So. Jr. Sr.
Mathematics 14 Jr. Sr.
" 16 Sr.*
Mechanics 2 So. Jr. Sr.
" 4 Jr. Sr.
Drawing 3 So. Jr. Sr.
Drawing 17 So. Jr. Sr.
" 8 So. Jr. Sr.
" 11 Jr. Sr.
" 13 So. Jr. Sr.
Civil Engineering 2 So. Jr. Sr.
Civil Engineering 7 Jr. Sr.
Civil Engineering 10 Jr. Sr.
Civil Engineering 13 Jr. Sr.
Chemistry 2 So.
" 5 Jr.
" 8 Sr.
" 11 Sr.
" 13 Sr.
" 15 Sr.
" 17 Sr.
Physics 2 So. Jr.
" 7 So. Jr. Sr.
" 10 Jr. Sr.
Astronomy 2 Jr. Sr.
" 3 Jr. Sr.
Zoology 1 Jr. Sr.
Geology 2 Sr.
Comparative Anatomy 4 Sr.
Physiology 3 Jr.
Botany 2 So.
" 5 So. Jr. Sr.
Military Science* Jr. Sr.

* Omitted during 1892–93.

Third Term

Philosophy 1* So. Jr.
" 4* Jr.
" 22* Sr.
" 10 Sr.
" 13 Sr.
" 15 Sr.
" 7 Sr.
" 18 Sr.
Greek 6 So.
" 9 Jr. Sr.
" 13 Sr.
Latin 6 So.
" 9* Jr. Sr.
" 10 Jr. Sr.
" 13 Jr. Sr.
Fine Arts 3 Jr. Sr.
" " 6 Jr. Sr.
Hebrew 3 Jr. Sr.
" 6 Jr. Sr.
Aramaic 2 Jr. Sr.
Arabic 3 Jr. Sr.
Assyrian 3 Jr. Sr.
Oriental History 3 Jr. Sr.
Rhetoric 7 Jr. Sr.
English 11 So. Jr. Sr.
" 14* Jr. Sr.
" 26 Jr. Sr.
" 29* So. Jr.
" 6 Jr. Sr.
" 9 So. Jr.
" 17 Jr. Sr.
" 22 Sr.
History 3 Jr. Sr.
" 11 Jr. Sr.
" 6 Jr. Sr.
" 9 Sr.
Political Science 3 Jr. Sr.
Political Science 4 Sr.
Social Science 3 Jr. Sr.
Political Economy 3 Jr. Sr.
Political Economy 5 Sr.
German 6 Jr. Sr.
" 9 Sr.
" 18 Jr. Sr.
" 12 Jr. Sr.
" 15 Sr.
" 21 Sr.
Dutch* Jr. Sr.
French A*
" 6 So. Jr. Sr.
" 9 So. Jr. Sr.
" 15 So. Jr. Sr.
" 24* Sr.
" 12 Sr.
" 30 Sr.
" 18 Sr.
" 21 Sr.
" 27* Sr.
Italian 3 So. Jr. Sr.
" 6 Jr. Sr.
" 9* Jr. Sr.
Spanish 3 So. Jr. Sr.
" 6 Jr. Sr.
Mathematics 8 So. Jr. Sr.
Mathematics 11 So. Jr Sr.
Mathematics 12 So. Jr. Sr.
Mathematics 16 Sr.
Mechanics 5* So. Jr. Sr.
Drawing 4 So. Jr. Sr
Drawing 18 So. Jr. Sr.
Drawing 9 So. Jr. Sr.
" 12 Jr. Sr.
" 14 So. Jr. Sr.
Civil Engineering 3 So. Jr. Sr.
Civil Engineering 4 Jr. Sr.
Civil Engineering 8 Jr. Sr.
Civil Engineering 9 Jr. Sr.
Civil Engineering 11 Jr. Sr,
Civil Engineering 14 Jr. Sr.
Civil Engineering 16 Jr. Sr.
Chemistry 3 So.
" 6 Jr.
" 9 Sr.
" 12 Sr.
" 14 Sr.
" 16 Sr.
" 18 Sr.
" 20 Sr.
Physics 12 Jr. Sr.
" 3 So. Jr.
" 8 So. Jr. Sr.
" 11 Jr. Sr.
Astronomy 4 Jr. Sr.
Meteorology 1 Jr. Sr.
Anthropology 1 Sr.
Comparative Anatomy 1 So.
Comparative Anatomy 2 Jr. Sr.
Botany 3 So.
" 6 So. Jr. Sr.

* Omitted during 1892-93.

II, The Courses of Instruction Arranged According to Departments

In the following pages the studies are arranged by departments, in order to show the courses available to the student in each subject. The Honor Courses presented are special courses of reading assigned to students wishing to do extra work. As such assignments vary with individual students, the Honor Courses named are to be regarded simply as specimens.

I, PHILOSOPHY

PRESIDENT ANDREWS, PROFESSORS SETH AND DELABARRE

1, *Logic.* Three hours. Third Term. Offered every other year. Elective for Sophomores and Juniors.

PROFESSOR DELABARRE

Omitted in 1892-93.

2, 3, *Psychology.* General Synthetic Course. Three hours. First and Second Terms respectively. Required of all Juniors.

PROFESSOR DELABARRE

In 1892-93, Course 2 will be offered during the Second Term, two hours per week; and Course 3, Third Term, three hours; required of all Juniors.

4, *Psychology.* Laboratory Course. Experiments by the students in the main lines of psychological research. Three hours. Third Term. Elective for Juniors.

PROFESSOR DELABARRE

In 1892-93, Course 4 will not be offered to Juniors.

20, 21, 22, *Psychology.* Advanced Course. Experimental investigation of special problems, and Seminary for discussions, essays, and lectures. Three hours. First, Second, and Third Terms respectively. Elective for Seniors who have passed in Course 4.

PROFESSOR DELABARRE

In 1892-93, only Course 21 will be offered, during the Second Term. In 1893-94, Course 4 will be offered to Seniors in the place of Course 20 during the First Term, and will be followed during the next two terms by Courses 21, 22.

19, *Philosophical Introduction.* Intended to explain the origin, aim, and divisions of philosophical inquiry, and its relation to the special sciences; to criticise the ordinary and scientific interpretations of the world; and to acquaint the student wtih the chief logical, metaphysical,

and ethical problems, and with the typical solutions of them. Three hours. Third Term. Required of all Juniors.

PROFESSOR SETH

In 1892-93, Course 19 will be a two-hour course, required of all Juniors during the Third Term.

8, *History of Greek Philosophy.* Three hours. First Term. Elective for Seniors.

PROFESSOR SETH

9, *History of Mediaeval and Early Modern Philosophy.* Three hours. Second Term. Elective for Seniors who have passed in Course 8.

PROFESSOR SETH

10, *History of Recent and Contemporary Philosophy.* Three hours. Third Term. Elective for Seniors who have passed in Courses 8 and 9.

PROFESSOR SETH

11, 12, 13, *Course in Authors.* Three hours. First, Second, and Third Terms respectively. Elective for Seniors.

PROFESSOR DELABARRE

In 1892-93, the following authors will probably be read: First Term, Plato and Aristotle; Second Term, Descartes and Spinoza; Third Term, Locke, Berkeley, and Hume.

5, *Theoretical Ethics.* Three hours. First Term. Elective for Seniors.

PROFESSOR SETH

6, 15, *Practical Ethics.* Three hours. Second and Third Terms respectively. Elective for Seniors.

THE PRESIDENT

17, 18, *Conversations in Casuistry.* One hour. Second and Third Terms respectively. Elective for Seniors.

THE PRESIDENT

16, 7, *Philosophy of Religion.* Three hours. Second and Third Terms respectively. Elective for Seniors who have passed in Course 5.

PROFESSOR SETH

14, *Philosophical Seminary.* Papers, followed by discussion, on the more difficult problems of philosophy. Two hours. Through the year. Elective for graduate and honor students.

PROFESSOR SETH

In 1892-93, First Term, Kant's three Critiques in their mutual relations; Second Term, the Logic of Hegel; Third Term, Lotze's or Bowne's Metaphysic.

In 1893-94, Aristotle's Ethics, and topical studies in the Philosophy of Religion.

Honors will be offered in connection with courses 8, 9, 10; 11, 12, 13; 5, 16, 7; and 20, 21, 22.

II, GREEK LITERATURE AND HISTORY

PROFESSORS MANATT AND HILDRETH, MR. GREENE, AND DR. NEWHALL

1, *Herodotus.* Greek History. Greek Composition. Reading at sight. Supplementary reading and other work. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HILDRETH AND MR. GREENE

2, *Thucydides.* Greek History. Greek Composition. Reading at sight. Supplementary reading and other work. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HILDRETH AND MR. GREENE

3, *Homer.* The Odyssey. The Homeric Question, and various other topics, historical and literary, suggested by this course of reading. Greek Composition. Reading at sight. Supplementary reading and other work. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HILDRETH AND MR. GREENE

4, *Lysias.* History of Greek Oratory. Reading at sight. Supplementary reading. Three hours. First Term. Elective for Sophomores.

DR. NEWHALL

5, *Aeschylus.* Development of Greek Tragedy. Reading at sight. Supplementary reading. Three hours. Second Term. Elective for Sophomores.

DR. NEWHALL

6, *Sophocles.* History of Greek Tragedy. Selections from Euripides. Reading at sight. Supplementary reading. Three hours. Third Term. Elective for Sophomores.

DR. NEWHALL

7, *Demosthenes.* Philippics and Oration on the Crown. Reading at sight. Lectures on Athenian Oratory and on the History of Greece from the close of the Peloponnesian War to Alexander. Supplementary reading and other work. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR HILDRETH

8, *Aristophanes.* Clouds. Lectures on various topics connected with the study of this poet. Reading at sight. Supplementary reading and other work. Three hours. Seeond Term. Elective for Juniors and Seniors.

PROFESSOR HILDRETH

9, *Plato.* The Phaedo. Lectures on the Life and Works of Plato, and on the History of Greek Philosophy. Supplementary reading and other work. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HILDRETH

11, *Pindar.* Selections from the Lyric Poets. History of Greek Lyric Poetry. Supplementary reading. Three hours. First Term. Elective for Seniors and graduate students.

DR. NEWHALL

12, *Textual and Literary Criticism.* Principles of textual criticism, with practice in some classical author. The Platonic Canon, as an example of literary criticism. Three hours. Second Term. Elective for Seniors and graduate students.

DR. NEWHALL

13, *Greek Palaeography.* Development of Greek writing. Practice in reading Greek manuscripts. Three hours. Third Term. Elective for Seniors and graduate students.

DR. NEWHALL

Honor Courses

Students studying for honors in Greek are allowed a large option. The following courses may serve as illustrations of what is desired :

a, Homer, eight or ten books of the Iliad. Homeric Question. Gladstone's Homeric studies. Demosthenes and Aeschines, one or more characteristic orations of each. History of Attic Oratory. Characteristics of the ten Attic Orators. Aeschylus, one or more tragedies. Aristophanes, the Clouds and the Acharnians. Historical Development of the Greek Drama. Plato, the Phaedo and one or more of the other Dialogues. Early History of Greek Philosophy. Studies in Greek Literature.

b, Herodotus, the Persians Wars. Aeschylus, the Persians. Selections from the other Dramatists. Thucydides, Peloponnesian War. Cox and Smith, General History of Greece. Grote, Curtius, and Thirlwall, History of Greece in the Fifth Century before Christ. Rawlinson's Herodotus.

c, Homer, eight or ten books of the Iliad. Studies in Greek Grammar and in Greek Etymology. Gustavus Meyer, *Griechische Grammatik.* Monro's Homeric Grammar. Karl Brugmann, (1) Comparative Grammar of the Indo-Germanic Languages, vol. 1; (2) *Griechische Grammatik. Handbuch der klassischen Alterthumswissenschaft*, by Iwan Müller. Papillon, Comparative Philology. B. Delbrück, (1) *Der Gebrauch des Conjuctivs und Optativs im Sanskrit und Griechischen;* (2) *Ablative, Localis, Instrumentalis.* G. Curtius, (1) *Das Verbum der griechischen Sprache;* (2) *Grundzüge der griechischen Etymologie.* Selections from the Greek Orators. History of Greek Oratory.

III, ROMAN LITERATURE AND HISTORY

PROFESSOR HARKNESS AND MR. EVERETT

1, *Livy.* Early Roman History. Four hours. First Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HARKNESS AND MR. EVERETT

2, *Cicero.* Letters. Cicero and his times. Four hours. Second Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HARKNESS AND MR. EVERETT

3, *Tacitus.* Germania and Agricola. History of the Early Empire. Four hours. Third Term. Required of candidates for the degree of Bachelor of Arts.

PROFESSOR HARKNESS AND MR. EVERETT

4, *Horace.* Odes and Epodes. Ovid's Lyrics. Lectures on Lyric Poetry. Three hours. First Term. Elective for Sophomores.

PROFESSOR HARKNESS

5, *Catullus, Tibullus, and Propertius.* Lyric Poetry continued Three hours. Second Term. Elective for Sophomores.

PROFESSOR HARKNESS

6, *The Satires of Horace and Juvenal.* Roman Life. Three hours. Third Term. Elective for Sophomores.

PROFESSOR HARKNESS

7, *The Origin of Latin Poetry and the Development of the Drama.* Readings from Plautus and Terence. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

To be given in 1893–94.

8, *The Poetry of the Republic continued and the Poetry of the Augustan Age.* Readings from Lucretius and other Authors of this period. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

To be given in 1893–94.

9, *The Poetry of the Silver Age.* Readings from Authors of the period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

To be given in 1893–94.

10, *Private Life and Antiquities of Rome.* Illustrated by the stereopticon. One hour. Through the year. Elective for Juniors, Seniors, and graduates.

PROFESSOR HARKNESS

11, *Prose of the Republican Period.* The Development of Oratory. Readings from Specimens of Early Latin, from Cicero's Brutus, and from Quintilian. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

12, *Prose of the Augustan Age.* The Development of Historical Writing. Readings from the Historians. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

13, *Prose of the Silver Age.* Roman Philosophy. Readings from Seneca and from other authors of this period. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR HARKNESS

The object of Courses 11–13 is to give a connected idea of the development and history of Latin Prose. These courses will alternate with corresponding courses on the history of Latin Poetry.

Honor Courses

A wide range of choice is allowed students who read for honors. The following courses may serve as examples of what is recommended:

a, F. D. Allen, Remnants of Early Latin. Wordsworth, Fragments and Specimens of Early Latin. Plautus, three or four plays. Cato, *De Re Rustica.* Selections from Quintilian and from Aulus Gellius. Strong, Logeman, Wheeler, Introduction to the Study of Language. Brugmann, Comparative Grammar. Seelman, *Die Aussprache des Latein.* Stolz and Schmalz, *Lateinische Grammatik.* Bréal et Bailly, *Dictionnaire étymologique Latine.* Vaniček, *Etymologisches Wörterbuch der lateinischen Sprache.*

b, Selections from the following: Plautus, Terence, Vergil's Georgics, Ovid's Elegies, Seneca's Tragedies, Martial. Histories of Roman Literature; Teuffel, Crufwell. Sellar, The Roman Poets. Moulton, The Ancient Classical Drama. Patin, *Etudes sur la Poésie Latine.* Ribbeck, *Geschichte der römischen Dichtung.*

c, Selections from Lucretius, from Cicero's Philosophical Writings, and from Seneca's Essays and Epistles. Mayor, History of Ancient Philosophy. Wallace, Epicureanism. Masson, The Atomic Theory of Lucretius. Capes, Stoicism. Zeller, The Stoics, Epicureans, and Sceptics. Matha, *Le Poëme de Lucrèce.*

d, Selections from the following: Caesar, Livy, Tacitus, Suetonius, Curtius. Histories of Rome: Mommsen's, Ihne's, Duruy's, Arnold's. Merivale, History of the Romans under the Empire. Mommsen, Provinces of the Roman Empire. Arnold, Roman Provincial Administration. Sir G. C. Lewis, Credibility of the Early Roman History. Nisard, *Les Quatre Grands Historiens Latins.*

IV, THE FINE ARTS

PROFESSOR POLAND

1, *Classical Archaeology.* General course in the history of ancient art. Text book, Collignon's Manual of Greek Archaeology, Wright's translation. Lectures, illustrated by plaster casts, photographs, engravings, etc., with collateral reading. Books of reference: Müller, Manual of the Archaeology of Art; Perrot and Chipiez, History of Ancient Art; Mitchell, History of Ancient Sculpture; Murray, History of Greek Sculpture; Perry, Greek and Roman Sculpture; and other works on special subjects. Three hours. First Term. Elective for Juniors, Seniors, and graduate students.

2, *Classical Archaeology.* Special advanced course for those who have taken Course 1. Lectures and discussions of special topics. Books of reference: In addition to those mentioned under Course 1, Pausanias, *Descriptio Graeciae;* Pliny, *Naturalis Historia*, Books 33-37; Vitruvius, *De Architectura;* Overbeck, *Schriftquellen;* Penrose, Principles of Athenian Architecture; Bötticher, *Tektonik der Hellenen;* Brunn, *Geschichte der griechischen Künstler;* Baumeister, *Denkmäler des klassischen Altertums;* Overbeck, *Geschichte der griechischen Plastik;* Friederichs-Wolters, *Bausteine;* etc. Three hours. Second Term. Elective for those who have completed Course 1.

3, *Classical Archaeology.* Special advanced course in continuation of Course 2. Special topics in archaeology and epigraphy. Books of reference: In addition to those mentioned already, Jahn-Michaëlis, *Arx Athenarum;* Harrison and Verrall, Mythology and Monuments of Ancient Athens; Michaëlis, *Der Parthenon;* Roberts, Introduction to Greek Epigraphy; Taylor, The Alphabet; Roehl, *Imagines Inscriptionum graecarum antiquissimarum*, and *Inscriptiones graecae antiquissimae;* Kirchhoff, *Studien zur Geschichte des griechischen Alphabets;* etc. Three hours. Third Term. Elective for those who have completed Courses 1 and 2.

4, 5, 6, *Courses in the History of Art*, embracing early Christian art, mediaeval art, the Renaissance, modern art. These courses of three hours a week each, and open to Juniors, Seniors, and graduate students, will be given in the first, second, and third terms respectively. Details of the courses will be announced later. No course in these subjects is given in the first term of the present academic year, but some instruction in them will probably be offered in the second and third terms.

Lectures on the history of Architecture and Architectural Construction will be given to Juniors and Seniors in the third term of the present academic year by Professor Clarke.

7, 8, 9, Special courses each term will be given to graduates and other advanced students who have completed either Courses 1, 2, and 3, or 4, 5, and 6, or their equivalents.

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

PROFESSOR JEWETT

HEBREW

1, 2, 3, *Hebrew Accidence.* Harper's Introductory Hebrew Method and Manual, Harper's Elements of Hebrew, the Hebrew Bible. Three hours. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.

7, *Hebrew Syntax.* Harper's Elements of Hebrew Syntax. Reading of selected portions of the Historical Books and of the Psalms. Three hours. First Term. Elective for Juniors and Seniors.

4, 5, 6, *Critical Study of the Book of Isaiah.* One hour. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.

ARAMAIC

1, *Classical Aramaic* (Syriac). Nöldeke's *Syrische Grammatik.* Roediger's *Chrestomathia Syriaca.* Three hours. Second Term. Elective for Juniors and Seniors.

2, *Biblical Aramaic.* Brown's Aramaic Method. Three hours. Third Term. Elective for Juniors and Seniors.

ARABIC

1, 2, 3, *Lansing's Arabic Manual.* Selected texts from one of the Beirût Chrestomathies. Three hours. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.

ASSYRIAN

1, 2, 3, *Lyon's Assyrian Manual.* Abel and Winckler's *Keilschrifttexte.* Three hours. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.

ORIENTAL HISTORY

1, *Oriental History from the Earliest Times to the Birth of Mohammed.* Recitations, informal lectures, and supplementary reading. Three hours. First Term. Elective for Juniors and Seniors.

2, *The Rise and Spread of Islam.* Recitations, informal lectures, and supplementary reading. Three hours. Second Term. Elective for Juniors and Seniors,

3, *History of the Crusades.* Recitations, informal lectures, and supplementary reading. Three hours. Third Term. Elective for Juniors and Seniors.

The three courses in Oriental History may be taken independently of each other.

VI, RHETORIC AND ORATORY

Professor Sears, Mr. Brink, and Messrs. Eddy, Langdon, Brown, and Stone.

1, *Elementary Rhetoric.* One hour. Second Term. Required of all Freshmen.

Professor Sears

2, 3, 4, *Practical Rhetoric.* Three hours. First, Second, and Third Terms respectively. Required of all Sophomores.

Professor Sears and Mr. Brink

5, 6, 7, *Historical Course.* One hour. First, Second, and Third Terms respectively. Elective for Juniors, Seniors, and graduate students.

Professor Sears

10, 11, 12, *Advanced Composition.* Two hours. First, Second, and Third Terms respectively. Open to Juniors and Seniors whose previous work in English Composition qualifies them to pursue this course. It is also open to graduate students.

Professor Sears

8, *Elocution.* Lectures, with exercises, on the Development and Culture of the Speaking Voice. Lectures, with illustrative examples, on the General Principles of Elocutionary Art. Individual training. Declamations. One hour. Through the year. Required of all Sophomores.

Mr. Brink

9, *Oratory.* Lectures on the General Principles of Oratorical Composition. The preparation and rehearsal of Orations, with subsequent delivery before the class for criticism and discussion. One hour. Through the year. Required of all Juniors.

Mr. Brink

Honor Courses

(1) Selected reading from Bain's English Composition and Rhetoric, Hill's Science of Rhetoric, or Genung's Practical Rhetoric. References to Campbell, Whately, and Blair. (2) Rhetorical Analysis and Criticism of Standard Authors, by means of assigned essays.

VII, ENGLISH LITERATURE AND LANGUAGE

PROFESSORS MANLY AND BRONSON

10, 11, *Elementary Course in Anglo-Saxon.* Three hours. Second and Third Terms. Elective for Sophomores, Juniors, and Seniors.

PROFESSOR MANLY

12, 13, 14, *Advanced Course in Anglo-Saxon.* Béowulf, and the Elene; with lectures on the History of English Sounds. Three hours. Through the year. Elective for those who have taken 10 and 11.

PROFESSOR MANLY

Omitted in 1892-93; will be given in 1893-94.

24, 25, 26, *Middle English*, from the Conquest to Chaucer. Three hours. Through the year. Elective for those who have taken 10 and 11.

PROFESSOR MANLY

Given in 1892-93; will be omitted in 1893-94.

27, 28, *Chaucer.* Three hours. First and Second Terms. Elective for Sophomores and Juniors.

PROFESSOR MANLY

To be given in 1893-94.

1, *Chaucer.* Three hours. First Term. Required of Juniors.

PROFESSOR MANLY

To be omitted in 1893-94.

29, *Spenser and Milton.* Three hours. Third Term. Elective for Sophomores and Juniors.

PROFESSOR BRONSON

To be given in 1893-94.

2, 3, *Spenser and Milton.* One hour. Second and Third Terms. Required of Juniors.

PROFESSOR BRONSON

To be omitted in 1893-4.

4, 5, 6, *Shakspere.* Three hours. Through the year. Elective for Juniors and Seniors.

PROFESSOR MANLY

18, 19, *The Novel.* Three hours. First and Second Terms. Elective for students who have taken two courses in Literature.

PROFESSOR BRONSON

7, 8, 9, *Nineteenth-Century English Poetry.* Three hours. Through the year. Elective for Sophomores and Juniors.

PROFESSOR BRONSON

17, *American Literature.* Three hours. Third Term. Elective for students who have taken two courses in Literature.

PROFESSOR BRONSON

20, 21, 22, *Seminary.* Two hours (in one session). Through the year. First Term, the English Lyric. Second Term, The Historical Development of English Prose Style. Third Term, English Essayists. Elective for Seniors and graduate students.

PROFESSOR BRONSON

Honor Courses

Courses leading to Honors in English are offered in connection with 1, 2, 3; with 4, 5, 6; with 7, 8, 9; with 18, 19.

VIII, HISTORY

PROFESSORS JAMESON AND MUNRO

1, *General Mediaeval History of Europe.* Recitations and lectures, reports by members of the class, and supplementary readings. Three hours. First Term. Required of all Juniors.

PROFESSOR MUNRO

2, *General Modern History of Europe.* Methods as indicated under Course 1. Three hours. Second Term. Required of all Juniors.

PROFESSOR MUNRO

3, *History of the Reformation.* Three hours. Third Term. Elective for Juniors, Seniors, and graduate students.

PROFESSOR MUNRO

4, *English Constitutional and Political History to* 1625. Methods as indicated under Course 1. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

5, *English Constitutional and Political History since* 1625. Methods as in Course 1. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

6, *History of Europe since* 1815. Methods as in Course 1. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR JAMESON

7, *Constitutional and Political History of the United States to* 1815. Methods as in Course 1. Three hours. First Term. Elective for Seniors.

PROFESSOR JAMESON

8, *Constitutional and Political History of the United States since* 1815. Methods as in Course 1. Three hours. Second Term. Elective for Seniors.

PROFESSOR JAMESON

9, *Practical Exercises in American History.* Methods, individual research, practice in the use of sources, instruction individually, occasional meetings as a class. Three hours. Third Term. Elective for those Seniors who have completed Courses 7 and 8, and for graduate students.

PROFESSOR JAMESON

10, *Principles of Historical Criticism.* Lectures and exercises. One hour. Through the year. Elective for graduate students.

PROFESSOR JAMESON

11, *History of the Renaissance.* Three hours. Third Term. Elective for Juniors, Seniors, and graduate students.

PROFESSOR MUNRO

12, *Practical Exercises in Historical Criticism.* Early English History. One hour. First and Second Terms. Elective for graduate students.

PROFESSOR JAMESON

13, *The History of Historical Writing in Modern Europe.* Lectures. One hour. Third Term. Elective for graduate students.

PROFESSOR JAMESON

Seminary

The Seminary of History, Political Economy, and Political Science, consisting of Professors Jameson, Gardner, Munro, and Wilson, the graduate students in the subjects named, and a few of the most advanced undergraduates, meets once in two weeks. Its meetings are devoted to original papers, studies of method, and of the historical, economical, and political reviews and journals.

Honor Courses

Honor Courses will be arranged in connection with History 1, 2, 3; History 1, 2, 6; History 1, 2, 11; History 4, 5, 6; History 7, 8, 9.

IX, POLITICAL AND SOCIAL SCIENCE

PROFESSORS WILSON AND JAMESON

POLITICAL SCIENCE

1, *The State.* Its origin, development, conditions, forms, end, and functions. Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2, *The Comparative Study of Constitutions.* Especially those of Germany, France, England, and the United States. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

3, *International Law and Relations.* Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

4, *Constitution and Politics of the United States.* Lectures, recitations, and essays. Three hours. Third Term. Elective for Seniors.

PROFESSOR JAMESON

SOCIAL SCIENCE

1, *The Principles of Sociology and the Development of Primitive Civilization.* Lectures. Three hours. First Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

2, *Modern Social Problems.* Charity, Penology, Criminology, History of Punishments, Marriage, Divorce. Lectures. Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

3, *Modern Social Problems.* Temperance, Education, Labor Movements, Indians, Social Legislation, and Municipal Government. Three hours. Third Term. Elective for Juniors and Seniors.

PROFESSOR WILSON

Advanced courses in Political and Social Science will probably be arranged for the ensuing year.

Honor Courses

Honor Courses will be arranged in connection with Political Science 1, 2, 3; Political Science 1, 2, 4; Social Science 1, 2, 3.

X, POLITICAL ECONOMY

PROFESSOR GARDNER

1, 2, 3, *Elementary Course.* Based upon J. S. Mill's Principles of Political Economy and upon readings in standard authors. Essays. Three hours. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.

4, *History of Economic Thought.* Based upon lectures and upon Ingram's History of Political Economy. Readings in the authors discussed. Three hours. First Term. Elective for Seniors.

7, *History of Economic Life.* Based upon lectures and Rand's Economic History since 1763. The purpose of this course is to trace the historical development of the more important phases of present economic life, such as the growth of free industry, the rise and limitation of competition, separation of industrial classes, the wage system, the growth of the state as an economic factor, etc. Three hours. Second Term. Elective for Seniors.

5, *Public Finance.* Based upon lectures and Bastable's Public Finance. Description and comparison of the financial systems of the United States and foreign nations, including local finance and discussion of the principles of taxation. Three hours. Third Term. Elective for Seniors.

Some other course may be substituted for Course 5 during the present year.

Advanced courses are open only to Seniors and graduate students who have completed the elementary course.

Honor Courses

The following will serve as examples of honor courses in Political Economy:

1, In connection with the elementary course. F. A. Walker, Political Economy, advanced course; W. Roscher, Political Economy (English translation); Alfred Marshall, Principles of Economics; J. E. Cairnes, Political Economy, Its Character and Logical Methods; J. N. Keynes, Scope and Method of Political Economy.

2, Special subject, *Banking.* Walker, Political Economy, advanced course. Gilbart, History, Principles, and Practice of Banking. Bagehot, Lombard Street. Jevons, Money and the Mechanism of Exchange. Wagner, *Credit-und Bankwesen*, in Schönberg's *Handbuch der Pol. Oek.* Dunbar, Theory and History of Banking. Portions of Bolles's Practical Banking. A study of Banking in the United States, based principally on Richardson's National Banks and the reports of the Comptroller of the Currency.

XI, GERMANIC LANGUAGES AND LITERATURES

PROFESSOR WILLIAMS, DR. SCOTT, MESSRS. CROWELL AND LEONARD

1, *Elementary Course.* Whitney's Brief German Grammar, study of forms and composition, and reading of easy selections from Brandt's German Reader. Three hours. First Term. Required of Sophomores.

MESSRS. CROWELL AND LEONARD

2, *Intermediate Course.* Study of syntax, themes in composition, and reading of selections in prose and verse from Grube, Richter, Freytag, Dielitz, Goethe, Schiller, Heine, Uhland. Considerable reading at sight. Three hours. Second Term. Required of Sophomores.

MESSRS. CROWELL AND LEONARD

3, *Heine.* A study of the life and works of Heine, with extended readings in his Lyrics. Considerable reading at sight. Three hours. Third Term. Required of Sophomores.

MESSRS. CROWELL AND LEONARD

4, *Schiller.* A study of Schiller's Dramatic Works, with lectures by the instructor and essays by the class. One complete drama will be read in class. Three hours. First Term. Elective for those who have taken Courses 1, 2, and 3.

MR. CROWELL

5, *Schiller.* A study of Schiller's *Balladen und Romanzen,* with lectures by the instructor and essays by the class. Three hours. Second Term. Elective for those who have taken Courses 1, 2, and 3.

MR. CROWELL

6, *Lessing.* A study of Lessing's Dramatic Works, with lectures by the instructor and essays by the class. One complete drama will be read in class. Three hours. Third Term. Elective for those who have taken Course 5.

MR. CROWELL

7, 8, 9, *Goethe.* A course in the study of Goethe's Dramatic Works, with lectures by the Instructor and essays by class. *Iphigenie, Egmont,* and *Faust* will be read in class. Elective for those who have taken Courses 4, 5, and 6.

PROFESSOR WILLIAMS

16, 17, 18, *Lectures on German Literature. First Term.* From the beginning to Klopstock 1748; with special attention to the Era of Karl der Grosse, the Epics and Minnesänger of the twelfth and thirteenth centuries, the Renaissance, the Reformation, and the Schools of the seventeenth century. *Second Term.* Klopstock, Herder, Lessing, Wieland, *Der Göttinger Dichterbund* and *Die Sturm-und-Drang-Periode. Third Term.* Goethe and Schiller, and the Romantic School and Modern Realistic School. Lectures by the Instructor, daily reports, critical study of selected subjects, and theses by class. Handbooks: Koberstein, Scherer, Kurz, Kluge, Hedge, Taylor, Hosmer, Boyesen. Three hours. Through the year. Elective for those who have taken Courses 1, 2, and 3.

PROFESSOR WILLIAMS

10, 11, 12, *Middle High German.* Elementary. Paul's *Mittelhochdeutsche Grammatik* (dritte Auflage); *Das Nibelungenlied* (Zarncke's Ausgabe, sechste Auflage). Lectures and essays. One hour. First, Second, and Third Terms. Elective for Juniors, Seniors, and graduate students.

PROFESSOR WILLIAMS AND DR. SCOTT

13, *Middle High German.* Second Year. *Minnegesang. Gedichte* of Walther von der Vogelweide (Lachmann's Ausgabe, sechste Auflage). Lectures upon the Minnesingers, essays by the class. One hour. First Term.

PROFESSOR WILLIAMS

14, *Middle High German. Parzival* of Wolfram von Eschenbach (Lachmann's Ausgabe, fünfte Auflage). Lectures and essays. One hour. Second Term.

PROFESSOR WILLIAMS

15, *Middle High German. Tristan und Isolt* of Gottfried von Strassburg (Bechstein's Ausgabe, dritte Auflage); and *Der Arme Heinrich* of Hartmann von Aue (Bech's Ausgabe, dritte Auflage). Lectures and essays. One hour. Third Term.

PROFESSOR WILLIAMS

19, 20, 21, *Old High German.* Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch* (zweite Auflage). One hour. First, Second, and Third Terms respectively. Elective for those who have taken courses 10, 11, 12.

PROFESSOR WILLIAMS

22, 23, 24, *Gothic.* Braune's *Gotische Grammatik mit Lesestücken* (dritte Auflage). Heyne's Stamm's *Ulfilas* (achte Auflage). Feist's *Grundriss der Gotischen Etymologie.* One hour. First, Second, and Third Terms respectively. Elective for Seniors and graduate students.

PROFESSOR WILLIAMS

25, 26, 27, *Old Norse.* Noreen's *Altisländische und Altnorwegische Grammatik* (zweite Auflage); and Jonsson's *Eddalieder;* and Mogk's *Gunnlaugssaga.* Lectures upon Old Norse Literature. One hour. First, Second, and Third Terms respectively. Open to all persons prepared to pursue the study.

DR. SCOTT

28, 29, 30, *Germanic Mythology.* Meyer's *Germanische Mythologie.* Lectures upon Comparative Mythology. One hour First, Second and Third Terms respectively. Open to all persons prepared to pursue the study.

DR. SCOTT

31, 32, 33, *Dutch.* Elementary Course, open to Juniors, Seniors, graduate students, and all others prepared to pursue the study. One hour. First, Second, and Third Terms respectively.

Honor Courses.

Sophomore Year. 1. *Maerchen,* Grimm. 2. *German Reader,* Brandt. 3. *Eigensinn,* Benedix. 4. *Der Zerbrochene Krug,* Zschokke. 5. *Geschichte des Dreissigjährigen Kriegs* (Buch III), Schiller.

Junior Year. 1. *Das Lied von der Glocke,* Schiller. 2. *Der Neffe als Onkel,* Schiller. 3. *Wilhelm Tell,* Schiller. 4. *Gedichte,* Heine. 5. *Gedichte,* Körner. 6. *Minna von Barnhelm,* Lessing.

Senior Year. 1. *Tasso,* Goethe. 2. *Hermann und Dorothea,* Goethe. 3. *Balladen und Romanzen,* Goethe. 4. *Die Leiden des jungen Werthers,* Goethe. 5. Boyesen's *Goethe and Schiller.* 6. Bossert's *Goethe et Schiller.* 7. Lewes' *Life of Goethe.*

XII, ROMANCE LANGUAGES AND LITERATURES

PROFESSOR LANGDON AND MR. JOHNSON

FRENCH

[A], *Elementary Course.* Grammar, composition, and reading of easy selections of modern French. Three hours. The equivalent of the Elementary French of the admission requirements. Required of Sophomores who offer German instead of French for admission.

MR. JOHNSON

To be given in 1893-94.

1, 2, 3, *Modern French.* Novels, plays, and poems, translated rapidly by the class with special study of unusual constructions and idioms. Readings to the class in the original with a view to the gradual elimination of translation. This is essentially a language-course. Three hours, through the year. Required of the Freshman class.

PROFESSOR LANGDON AND MR. JOHNSON

4, 5, 6, *Le Romantisme Français.* Literary study of the authors of the Romantic schools, especially of the masterpieces of Victor Hugo. Lectures and readings in the original, illustrated by reference to English authors, and to the corresponding movement in French Art. Three hours, through the year. Elective for all who have passed in Courses 1, 2, 3.

PROFESSOR LANGDON

7, 8, 9, *Le Classicisme Français.* Literature of the Seventeenth Century. The masterpieces of Corneille, Racine, Molière, and La Fontaine, read in the original and illustrated by comparison with Shakespeare's plays. Lectures on the contemporary civilization and art of France. Monthly reports of outside reading. Two hours, through the year. Elective for all who have passed in Courses 1, 2, 3, though students are advised to take Courses 4, 5, 6, first.

PROFESSOR LANGDON

13, 14, 15, *Practice in writing French.* Elementary course. One hour, through the year. Elective for all who have passed with credit Courses 1, 2, 3.

PROFESSOR LANGDON

GRADUATE COURSES OPEN TO SENIORS WITH THE CONSENT OF THE INSTRUCTOR

22, 23, 24, *Practice in writing and speaking French.* Advanced course. One hour, through the year. Open only for those who passed with credit in 13, 14, 15.

PROFESSOR LANGDON

To be offered in 1893-94.

10, 11, 12, *French Literature of the Nineteenth Century.* Lectures on the literary movement of the century, with wide reading in poetry and prose from Chateaubriand and Lamartine to Daudet and Coppée. Two hours, seminary work, during the year. Open with the following courses only to such as have passed with credit Courses 4, 5, 6, and 7, 8, 9.

PROFESSOR LANGDON

28, 29, 30, *French Literature of the Eighteenth Century.* Reading of selections from the principal authors with themes. One hour.

Mr. Johnson

To be offered in 1893-94.

16, 17, 18, *French Literature of the Sixteenth Century.* Study of the language, literature, and art of the Renaissance period in France. One hour. Through the year.

Professor Langdon

19, 20, 21, *Old French.* Introduction to the study of Romance Philology and the literature of the Middle Ages in France. One hour, through the year.

Professor Langdon

25, 26, 27, *Provençal.* Language and Literature. One hour, through the year.

Professor Langdon

To be offered in 1893-94.

ITALIAN

1, 2, 3, *Introductory Course.* Grammar, composition and reading of modern stories and plays. Three hours, through the year. Elective after the Freshman year.

Professor Langdon and Mr. Johnson

4, 5, 6, *Classical Course.* Selections from Petrarch and Boccaccio with special study of Dante's Divina Commedia in the original. Lectures on the Italian Renaissance. Two hours, through the year. Elective for all who have passed with credit Courses 1, 2, 3.

Professor Langdon

7, 8, 9, *Dante in English.* Lectures on the Divina Commedia, based upon Prof. Norton's translation, intended for all literary students who cannot give two years to the study of the Italian language. One hour, through the year. Open to Juniors and Seniors.

Professor Langdon

To be offered in 1893-94.

SPANISH

1, 2, 3, *Introductory Course.* Grammar, composition, and reading of modern stories and plays. Three hours, during the year. Elective after the Freshman year.

Mr. Johnson and Professor Langdon

4, 5, 6, *Classical Course.* Selections from Calderon and Lope de Vega with special study of Cervantes' Don Quixote. Two hours, through the year. Elective for all who have passed with credit Courses 1, 2, 3.

PROFESSOR LANGDON

To be offered in 1893-94.

XIII, PURE MATHEMATICS

PROFESSORS CLARKE AND DAVIS, DR. MANNING, MR. ALGER, AND MR. BURNHAM.

1, *Geometry, Solid and Spherical.* Wells's Elements of Geometry, with original propositions. Five hours. First Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSOR CLARKE, DR. MANNING, MR. ALGER, AND MR. BURNHAM

2, *Trigonometry, Plane and Spherical.* Wells's Trigonometrics. Five hours. Second Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSOR CLARKE, DR. MANNING, MR. ALGER, AND MR. BURNHAM

3, *Algebra.* Wells's, and Hall and Knight's Algebras. Five hours. Third Term. Required of all candidates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Civil Engineer, and Mechanical Engineer.

PROFESSOR CLARKE, DR. MANNING, MR. ALGER, AND MR. BURNHAM

4, *Spherical Trigonometry.* One hour. First Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

5, *Algebra.* Hall and Knight's Algebra. One hour. First Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

6, *Algebra.* Hall and Knight's Algebra. A continuation of Course 5. Two hours. Second Term. Required of candidates for the degree of Bachelor of Science.

DR. MANNING

7, *Algebra.* Hall and Knight's Algebra. A continuation of Course 6. Two hours. Third Term. Required of candidates for the degree of Bachelor of Science.

8, *Determinants.* Hanus's Determinants. Three hours. Third Term. Elective for those who have taken Course 3 or Courses 5, 6, and 7.

DR. MANNING

9, *Analytic Geometry.* Bowser's Analytic Geometry. Three hours. First Term. Elective for those who have taken Courses 1, 2, and 3. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS [this year MR. ALGER]

10, *Analytic Geometry.* Bowser's Analytic Geometry. Three hours. Second Term. Elective for those who have taken Course 9. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS [this year MR. ALGER]

11, *Modern Methods in Analytic Geometry.* Lectures. Three hours. Third Term. Elective for those who have taken Course 10.

DR. MANNING

12, *Differential Calculus.* Rice and Johnson's Differential Calculus. Three hours. Third Term. Elective for those who have taken Courses 9 and 10. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS [this year MR. ALGER]

13, *Integral Calculus.* Johnson's Integral Calculus. Three hours. First Term. Elective for those who have taken Course 12. Required of candidates for the degrees of Civil Engineer, and Mechanical Engineer.

PROFESSOR DAVIS [this year DR. MANNING]

14, *Applications of the Calculus.* Rice and Johnson's Differential Calculus and Johnson's Integral Calculus. Three hours. Second Term. Elective for those who have taken Courses 12 and 13. Required of candidates for the degress of Civil Engineer, and Mechanical Engineer.

DR. MANNING

15, *Differential Equations.* Johnson's Differential Equations. Three hours. First Term. Elective for those who have taken Courses 12 and 13.

DR. MANNING

16, *Differential Equations.* Johnson's Differential Equations. Continuation of Course 15. Three hours. Third Term. Elective for those who have taken Course 15.

DR. MANNING

17, *Theory of Functions*, including Series, the Complex Variable, the principal theorems of Cauchy and others in Uniform Functions, and a brief introduction to Elliptic Functions. One hour through the year for graduate students.

DR. MANNING

Honor Courses

Supplementary courses are arranged to accompany all the mathematical courses. These include :

Chauvenet's Geometry, the exercises in Solid Geometry, and the Appendix in Modern Geometry.

Rice and Johnson's Calculus, unabridged edition.

Course 17 may be taken as an Honor Course by those who have completed the Calculus.

XIV, APPLIED MATHEMATICS

PROFESSORS CLARKE AND RANDALL, MESSRS. BROWNELL AND BURNHAM

MECHANICS

PROFESSOR CLARKE

1, 2, *Elementary Course.* Three hours. First and Second Terms respectively. Elective for students who have taken Pure Mathematics 1, 2, 3.

3, 4, *Advanced Mechanics.* Three hours. First and Second Terms respectively. Elective for those who have taken Courses 1 and 2.

*5, *Theory of Structure and Graphical Analysis of Strains.* Three hours. Third Term. Elective for those who have taken Courses 1 and 2.

Not given in 1892-93.

DRAWING

PROFESSOR RANDALL AND MR. BURNHAM

1, *Elementary Mechanical Drawing.* Nature, care, and use of drawing instruments. Elements of orthographic and isometric projection. Four hours. First Term. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy.

* This course is the natural continuation of Course 2, but is of importance to the more advanced Engineering and Scientific students.

16, *Elementary Mechanical Drawing.* Similar to Course 1. Three hours. First Term. Elective for Sophomores, Juniors, and Seniors.

2, 3, 4, *Freehand Drawing.* Practical orthographic projection involving straight and curve line drawing. Principles of shades, shadows, and perspective. Wholly from the use of models. One hour. First, Second, and Third Terms respectively. Elective for all students.

5, 6, *Descriptive Geometry.* Church's Descriptive Geometry. Theory of orthographic and scenographic projection. Discussion and proof of a large number of theoretical and practical problems. Recitations and drawing. Four hours. Second and Third Terms respectively. Required of candidates for the degrees of Bachelor of Science, Civil Engineer, and Mechanical Engineer. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy and have taken Course 1.

17, 18, *Descriptive Geometry.* Similar to Courses 5 and 6. Three hours. Second and Third Terms respectively. Elective for Sophomores, Juniors and Seniors.

7, *Shades, Shadows, and Perspective.* Based upon Descriptive Geometry. Lectures and Drawing. Three hours. First Term. Elective for those who have taken Courses 5 and 6, or 17 and 18.

8, *Elementary Machine Drawing.* Sketches, detail and assembled drawings of simple machines. Three hours. Second Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have taken Courses 5 and 6, or 17 and 18.

9, *Gearing.* Nature of higher plane curves and their application in the formation of gear-teeth. Lectures and drawing. Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have taken Courses 5 and 6, or 17 and 18.

10, 11, *Advanced Machine Drawing.* Sketches, detail and assembled drawings of complicated machines. Three hours. First and Second Terms respectively. Required of candidates for the degree of Mechanical Engineer. Elective for those who have taken Courses 8 and 9.

12, *Elements of Machine Design.* Three hours. Third Term. Required of candidates for the degree of Mechanical Engineer. Elective for those who have taken Courses 10 and 11.

13, 14, *Architectural Drawing.* Continuation of Course 7. Plans, elevations, and perspective of buildings. Three hours. Second and Third Terms respectively. Elective for those who have taken Course 7.

15, *Constructive Geometry.* Discussion and proof of original methods of solving complicated geometrical problems. Three hours. First Term. Elective for those who have taken Courses 1 or 16.

CIVIL ENGINEERING

MR. BROWNELL

1, 2, 3, *Surveying.* Elementary Course. Johnson's Theory and Practice of Surveying. Recitations, field-work, and plotting. Three hours. First, Second, and Third Terms respectively. Elective for Sophomores, Juniors, and Seniors.

4, 5, *Surveying.* Advanced Course. Johnson's Theory and Practice of Surveying. Recitations, field-work, and plotting. Three hours. Third and First Terms respectively. Elective for Juniors and Seniors.

6, 7, 8, *Railroads and Highways.* Searle's Field Engineering. Recitations, field-work, and plotting. Three hours. First, Second, and Third Terms respectively. Elective for Juniors and Seniors.

*9, *Masonry.* Baker's Treatise on Masonry Construction. Recitations and lectures. Three hours. Third Term. Elective for Juniors and Seniors.

10, 11, *Hydraulics.* Merriman's Treatise on Hydraulics. Recitations and field-work. Three hours. Second and Third Terms respectively. Elective for Juniors and Seniors.

*12, 13, 14, *Structures.* Three, Six, and Three hours. First, Second, and Third Terms respectively. Course not yet outlined.

*15, *Materials.* Three hours. First Term. Course not yet outlined.

*16, *Geodesy.* One hour. Third Term. Course not yet outlined.

XV, CHEMISTRY

PROFESSOR APPLETON, MESSRS. CALDER, WILSON, AND SAUNDERS

1, *Descriptive Chemistry.* Non-metals. Three hours. First Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER AND SAUNDERS

* Not offered in 1893-94.

2, *Descriptive Chemistry.* Metals. Continuation of Course 1. Three hours. Second Term. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER AND SAUNDERS

3, *Descriptive Chemistry.* Carbon compounds. Continuation of Course 2. Three hours. Elective for Sophomores.

PROFESSOR APPLETON, MESSRS. CALDER AND SAUNDERS

The Courses 1, 2, and 3, called Descriptive Chemistry, include also Experimental and Theoretical Chemistry. Instruction is given by text-books, by lectures, and by individual laboratory work on the part of the student. The lectures are illustrated by experiments and colored charts and by blackboard exercises.

4, *Qualitative Analysis.* Three hours [six hours' attendance]. First Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. WILSON

5, *Qualitative Analysis continued and Quantitative Analysis begun.* Three hours [six hours' attendance]. Second Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. WILSON

6, *Quantitative Analysis continued.* Three hours [six hours' attendance.] Third Term. Elective for Juniors.

PROFESSOR APPLETON AND MR. WILSON

Qualitative Analysis includes a study of the properties of the metallic elements together with their separation from certain of their compounds, also of the chief non-metals and the acids produced by them.

Elementary Quantitative Analysis includes a study of quantitative precipitations and separations of the most important elements and compounds, and a somewhat thorough review of the principles upon which quantitative apparatus is constructed, including the theory of the chemical balance, the merits of the different systems of weights and measures, the use of burettes, graduated flasks, etc.

Students who have taken Courses 1–6 may elect any of the following:

7, 8, 9, *Advanced Quantitative Analysis.* Six hours [twelve hours' attendance]. First, Second, and Third Terms respectively.

PROFESSOR APPLETON AND MR. WILSON

10, 11, 12, *Organic Chemistry.* Six hours [twelve hours' attendance]. First, Second, and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

13, 14, *Assaying.* Six hours [twelve hours' attendance]. Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. WILSON

15, 16, *Medical Chemistry.* Six hours [twelve hours' attendance]. Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

17, 18, *Agricultural Chemistry.* Six hours [twelve hours' attendance]. Second and Third Terms respectively.

PROFESSOR APPLETON AND MR. SAUNDERS

20, *The Scouring and Dyeing of Wool.* Six hours [twelve hours' attendance]. Third Term.

PROFESSOR APPLETON AND MR. WILSON

Course 9, Advanced Quantitative Analysis, includes the assaying of metallic ores, the analysis of agricultural materials including commercial fertilizers, the testing of chemicals used in textile establishments, etc. Students are also required to prepare and read before the class essays on a series of assigned subjects relating to chemical manufactures.

Courses 10, 11, 12, Organic Chemistry, include an extended series of exercises in the preparation and testing of organic compounds. These compounds are so selected as fairly to represent the different branches of this important department.

Course 15, 16, Medical Chemistry, includes a thorough study of certain animal products, such as normal urine, morbid urine, various calculi, etc.

Course 20 includes the scouring and dyeing of wool, the cleansing of wool in the fleece, the removal of burs, the preparation and use of the necessary mordants, dye-stuffs, etc.

Honor Courses

Students who work for honors in Chemistry are expected to make some original investigations, approved by the professor in charge. They must also from time to time furnish written reports of their progress in this work.

XVI, PHYSICS

PROFESSOR BLAKE and MR. MOUNT

1, 2, *General Course.* Lectures illustrated by experiments, with occasional written examinations. Three hours. First and Second Terms respectively. Elective for Sophomores and Juniors.

PROFESSOR BLAKE

12, *Advanced Course.* Study of Physics with a text-book and with special attention to the mathematical presentation of the subject. Three hours. Third Term. Elective for Juniors and Seniors who have previously gone over the subject in outline by Courses 1, 2, or their equivalent.

PROFESSOR BLAKE

*3, *Elementary Course in Electricity and its Applications.* Thompson's Elementary Lessons in Electricity and Magnetism. Three hours [recitations two, laboratory practice one, the latter requiring two hours of attendance]. Third Term. Elective for Sophomores and Juniors. After the present year this Course will be open only to those who have taken Physics 1 and 2.

PROFESSOR BLAKE

*6, 7, *Work-Shop Course in Mechanical Processes.* Training in the use of tools for working wood and metals. Three hours [six hours' attendance in shop]. First and Second Terms respectively. Elective for Sophomores, Juniors, and Seniors, but pupils applying for this Course are required to take Mechanical Drawing also.

By special permission work-shop practice may be continued for more than one term, but only two terms will count toward the attainment of a degree.

*8, *Course in Photography.* Photographic methods and processes, with their applications. One hour. Third Term. Elective for all students duly prepared.

PROFESSOR BLAKE and MR. MOUNT

For the Courses below, familiarity with Peck's Elementary Mechanics or an equivalent is essential, and also a knowledge of the principal facts and theories of sound, light, heat, and electricity.

*9, 10, *Physical Laboratory.* General Course. Experimental work in Mechanics, Sound, Light, Heat, and Electricity, with mathematical discussion of results obtained and written reports of the work. Three hours [six hours of attendance in laboratory]. First Term: Mechanics and Sound. Second Term: Light, Heat, and Electricity. Elective for Juniors and Seniors who have taken Courses 1, 2, and 3.

PROFESSOR BLAKE and MR. MOUNT

*11, *Special Course in Electricity.* Text-book and laboratory practice. Three hours [two in class room and one in laboratory, the latter requiring two hours of attendance]. Third Term. Elective for Juniors and Seniors who have taken Courses 9 and 10.

PROFESSOR BLAKE and MR. MOUNT

* For laboratory fees see Index under "Expenses."

Honors in Physics

The entire course in Physics, which must be pursued with exceptional success to entitle the student to special honors, is as follows:

Pure Mathematics, 9, 10, 12; 13, 14, 15. Mechanics, 1, 2; 3, 4. Physics, 1, 2; 3; 12; 6, 7.

XVII, ASTRONOMY

PROFESSOR UPTON

1, *General Astronomy.* Young's General Astronomy, with lectures. Three hours. First Term. Elective for Juniors and Seniors.

2, *General Astronomy continued.* Three hours. Second Term. Elective for those who have taken Course 1

3, *Practical Astronomy.* The applications of Astronomy in Navigation and Geodesy. Theory and use of instruments. Three hours. Second Term. Elective for those who have taken Course 1.

4, *Practical Astronomy continued.* Three hours. Third Term. Elective for those who have taken Couse 3.

METEOROLOGY

1, *General Course.* Three hours. Third Term. Elective for Juniors and Seniors.

XVIII, ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

PROFESSOR PACKARD

ZOÖLOGY

1, *General Course.* Three hours. Second Term. Elective for Juniors and Seniors.

PROFESSOR PACKARD

GEOLOGY

1, 2, *General Course.* Three hours. First and Second Terms respectively. Elective for Seniors.

PROFESSOR PACKARD

ANTHROPOLOGY

1, *General Course.* Three hours. Third Term. Elective for Seniors.
PROFESSOR PACKARD

XIX, COMPARATIVE ANATOMY

PROFESSOR BUMPUS AND MR. TOWER

1, *Biology.* Four hours. Third Term. Elective for Sophomores.
MR. TOWER

2, *Invertebrate Anatomy.* Three hours. Third Term. Elective for Juniors and Seniors.
PROFESSOR BUMPUS

3, *Comparative Anatomy of the Vertebrates.* Three hours. First Term. Elective for those who have taken Course 1, Course 2, or Zoölogy.
PROFESSOR BUMPUS

4, *Comparative Anatomy of the Vertebrates.* Three hours. Second Term. Elective for those who have taken Course 3.
PROFESSOR BUMPUS

XX, PHYSIOLOGY

PROFESSOR CHAPIN

1, *Course in Hygiene.* One hour. Third Term. Required of Freshmen.

*2, 3, *Elementary Course in Physiology,* Three hours. First and Second Terms respectively. Elective for Juniors.

XXI, BOTANY

PROFESSOR BAILEY AND MR. OSTERHOUT

1, 2, 3, *Vegetable Morphology.* Three hours. First, Second, and Third Terms respectively. Elective for Freshmen who are candidates for the degree of Bachelor of Philosophy, and for Sophomores.

4, 5, 6, *Histology, Physiology, and Study of Types.* Three hours. First, Second, and Third Terms respectively. Elective for those who have taken Courses 1, 2, and 3.

*Those who elect this course the first term are expected to pursue it the second as well.

XXII, AGRICULTURE

PROFESSOR JENKS

1, *Agricultural Zoölogy.* Three hours. First Term. Required of students upon state scholarships.

XXIII, MILITARY SCIENCE AND TACTICS

LIEUTENANT PARDEE

1, *Practical Exercises.* Infantry and artillery drill, small arms, target practice. Three hours, First and Third Term. One hour, Second Term. Required of first and second year men, elective for Juniors and Seniors.

2, *Systematic and Progressive Instruction.* Lectures in Drill Regulations, Preparation of Army Reports and Returns, Organization and Administration of the United States Army, and the Principles of Strategy, Grand Tactics, and the Art of War. Three hours. Second Term. Elective for Juniors and Seniors.
Not given in 1892–93.

Courses Suggested as Desirable for Students Preparing for Professions

Since the number of elective studies has become so great, students for the Ministry, the Law, or Medicine are not infrequently at a loss to know which branches they ought to choose. The following groups are meant to aid such, indicating the studies which a student with either of the above-named professions in view would find it to his advantage to elect, unless directed otherwise by some special considerations. Competent students who complete these Courses with special thoroughness are sometimes able to save a year in professional schools. Besides serving candidates for degrees, these lists will afford direction to any students for the professions who may be obliged to limit their collegiate preparation to one, two, or three years. No degrees will be awarded at the completion of such shorter courses, but Certificates of Attainment will be furnished when desired.

I, Suggested Course Preparatory to the Study of Theology

First Year

The regular Freshman Course for the Degree of Bachelor of Arts. See page 45.

Second Year

First Term	*Second Term*	*Third Term*
Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Elocution 1,	Elocution 2,	Elocution 3,
German 1,	German 2,	German 3,
Greek 4,	Greek 5,	Greek 6,
English 7,	English 8,	English 9,
Botany 1.	Botany 2.	Botany 3.

For Greek, Latin or French may be substituted. Chemistry may also be taken here, and followed in the third year by Astronomy. Those studying no foreign language may well begin English now, continuing it through two years. A course in the Semitic tongues may be begun at this point, to continue one, two, or three years, displacing the studies least to the pupil's taste.

THIRD YEAR

First Term	*Second Term*	*Third Term*
Philosophy 2,	Philosophy 3,	Philosophy 19,
English 4,	English 5,	English 6,
Essays and Orations,	Essays and Orations,	Essays and Orations.
Oriental History 1,	Oriental History 2,	Oriental History 3,
Political Economy 1.	Political Economy 2.	Political Economy 3.
History 1.	History 2.	History 3.

FOURTH YEAR

First Term	*Second Term*	*Third Term*
Philosophy [two courses],	Philosophy [two courses],	Philosophy [two courses],
History 7,	History 8,	History 9,
Hebrew 1,	Hebrew 2,	Hebrew 3,
Social Science 1.	Social Science 2.	Social Science 3.

II, Suggested Course Preparatory to the Study of Law

FIRST YEAR

The regular Freshman Course for the degree of Bachelor of Arts. See page 45.

SECOND YEAR

Required:

First Term	*Second Term*	*Third Term*
Rhetoric 2,	Rhetoric 3,	Rhetoric 4,
Elocution 1,	Elocution 2,	Elocution 3,
German 1.	German 2.	German 3.

Elective,—three courses,—two from one and one from the other of the following groups:

GROUP I

Greek 4,	Greek 5,	Greek 6,
Latin 4,	Latin 5,	Latin 6,
French 4,	French 5,	French 6,
English 7.	English 8.	English 9.

GROUP II

Mathematics 9, Chemistry 1, Physics 1.	Mathematics 10, Chemistry 2, Physics 2.	Mathematics 11 or 12, Chemistry 3, Physics 3.

THIRD YEAR

First Term	*Second Term*	*Third Term*
Philosophy 2, Essays and Orations, History 4, Political Economy 1, Political Science 1, History 1.	Philosophy 3, Essays and Orations, History 5, Political Economy 2, Political Science 2, History 2.	Philosophy 19, Essays and Orations History 6, Political Economy 3, Political Science 3, History 3.

FOURTH YEAR

First Term	*Second Term*	*Third Term*
Philosophy [two courses], Social Science 1, Advanced Political Economy, History 7.	Philosophy [two courses], Social Science 2, Advanced Political Economy, History 8.	Philosophy [two courses], Social Science 3, Advanced Political Economy, Political Science 4.

III, Suggested Course Preparatory to the Study of Medicine or Biological Science

FIRST YEAR

First Term	*Second Term*	*Third Term*
Mathematics 1, French 1 or German 4, Drawing 2, General Lecture, Botany 1, Rhetoric 2, Elocution 1.	Mathematics 2, French 2 or German 5, Drawing 3, Rhetoric 1, Botany 2, Rhetoric 3, Elocution 2.	Mathematics 3, French 3 or German 6, Drawing 4, Physiology 1, Botany 3, Rhetoric 4, Elocution 3.

Candidates for the degree of A. B. will take during the Freshman year the regular course as scheduled on page 45.

SECOND YEAR

First Term	*Second Term*	*Third Term*
German 1,	German 2,	German 3,
French 4,	French 5,	French 6,
Rhetoric 5,	Rhetoric 6,	Botany 6, / Biology 1,
Botany 4,	Botany 5,	
Physics 1,	Physics 2,	Physics 3,
Chemistry 1.	Chemistry 2.	Chemistry 3.

Candidates for the degree of A. B. will take during the first and second terms of the Sophomore year, Botany 1 and Botany 2 in place of Botany 4 and Botany 5 above mentioned, and Rhetoric and Elocution in place of French.

THIRD YEAR

First Term	*Second Term*	*Third Term*
Philosophy 2,	Philosophy 3,	Philosophy 19,
Essays and Orations,	Essays and Orations,	Essays and Orations,
History 1,	History 2,	History 3,
Physiology 2,	Physiology 3,	Philosophy 4,
Chemistry 4,	Chemistry 5,	Chemistry 6,
Political or Social Science 1.	Zoölogy 1.	Comparative Anatomy 1.

FOURTH YEAR

First Term	*Second Term*	*Third Term*
Philosophy,	Philosophy,	Philosophy,
Comparative Anatomy 2,	Comparative Anatomy 3,	Comparative Anatomy 4,
Geology 1,	Geology 2,	Anthropology,
Chemistry 10.	Chemistry 15.	Chemistry 16.

INSTRUCTION FOR GRADUATE STUDENTS.

Brown University offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries (elsewhere referred to), the laboratories of the University, its seminaries, its observatory, and its various museums, all of a nature greatly to assist advanced study, but the industries of the City of Providence offer numerous and rare opportunities for special scientific investigations.

The following courses of instruction are at present available for graduate students, those marked with a * being intended primarily for such students, the rest meant also for higher undergraduate work. Candidates for graduate degrees and other advanced pupils will find all of these courses, in both methods and subjects, exceedingly helpful. The numbers of the Courses refer to the general conspectus, pages 54 to 83, inclusive.

In Philosophy

Courses 4-13, and 15-18 inclusive. Course 14.*

In the Classics

Greek 11, 12, 13. Textual and Literary Criticism, Palaeography. Three times a week through the year.

Latin 7, 8, 9. History and Development of Roman Poetry. Three times a week through the academic year 1893-94.

Latin 11, 12, 13. History and Development of Latin Prose. Three times a week through the academic year 1892-93.

Roman Antiquities. Weekly through the year.

Fine Arts 1, 2, 3. Classical Archaeology. Three times a week through the year.

Fine Arts 4, 5, 6. History of Art. Three times a week through the year.

Fine Arts 7,* 8,* 9.* Special Courses.

In the Semitic Languages

Hebrew 1, 2, 3. Three times a week. Through the year.

Hebrew 4, 5, 6. Critical Study of Isaiah. Three times a week through the year.

Hebrew 7. Syntax and Reading. Three times a week. First Term.

Aramaic 1, 2. Three times a week. Second and Third Terms.

Arabic 1, 2, 3. Three times a week through the year.

Assyrian 1, 2, 3. Three times a week through the year.

In Rhetoric and English

Rhetoric 5, 6, 7. Historical Course. Weekly through the year.

Rhetoric 10, 11, 12. Advanced Composition. Twice a week through the year.

English 4, 5, 6. Shakspere and the English Drama. Three times a week through the year.

English 7, 8, 9. Nineteenth-Century English Poetry. Three times a week through the year.

English 10, 11. Elementary Anglo-Saxon. Three times a week. Second and Third Terms.

English 12, 13, 14. Anglo-Saxon Poetry. Bēowulf and Elene. Three times a week through the year.

English 24, 25, 26. Middle English. Three times a week through the year.

English 18, 19. The Novel. Three hours. First and Second Terms.

English 17. American Literature. Three hours. Third Term.

English 20,* 21,* 22.* Seminary. Two hours weekly through the year.

In History, Political and Social Science, and Political Economy

History 7, 8, 9. Constitutional and Political History of the United States. Three times a week through the year.

History 10,* Principles of Historical Criticism. Weekly through the year.

History 12.* Practical Exercises in Historical Criticism. One hour. First and Second Terms.

History 13.* History of Historical Writing in Modern Europe. Weekly during Third Term.

History 3. History of the Reformation. Three times a week. Third Term.

History 11. History of the Renaissance. Three times a week. Third Term.

Political Science 1, 2, 3. The State, Comparative Constitutional Law, International Law. Three times a week through the year.

Political Science 4. Three times a week. Third Term.

Social Science 1, 2, 3. Sociology: Modern Social Problems. Three times a week through the year.

*Seminary of History, Political Economy, and Political Science.** Once in two weeks through the year.

Political Economy 4. History of Economic Thought. Three times a week. Second Term.

Political Economy 7. History of Economic Life. Three hours. Second Term.

Political Economy 5. Public Finance. Three times a week. Third Term.

Oriental History 1, 2, 3. The Ancient East, Islâm, The Crusades. Three times a week through the year.

In Modern Languages

German 4–9, inclusive. Lessing, Schiller, Goethe. Six times a week through the year.

German 16,* 17,* 18.* German Literature. Three times a week through the year.

German 10,* 11,* 12.* Middle High German. Weekly through the year.

German 13,* 14,* 15.* Middle High German, Advanced. Weekly through the year.

German 19,* 20,* 21.* Old High German. Weekly through the year.

German 22,* 23,* 24.* Gothic. Weekly through the year.

German 25,* 26,* 27.* Old Norse. Weekly through the year.

German 28,* 29,* 30.* Germanic Mythology. Weekly through the year.

German 31,* 32,* 33.* Dutch. Weekly through the year.

French 22,* 23,* 24.* Advanced Course in writing and speaking French. One hour through the year.

French 10,* 11,* 12.* Literature of the Nineteenth Century. Seminary work. Two hours weekly through the year.

French 28,* 29,* 30.* Literature of the Eighteenth Century. Weekly through the year.

French 16,* 17,* 18.* Literature of the Sixteenth Century. Weekly through the year.

French 19,* 20,* 21.* Old French. Weekly through the year.

French 25,* 26,* 27.* Provençal. Weekly through the year.

Italian 4,* 5,* 6.* Classical Course. Dante, Petrarch, Boccaccio. Three times a week through the year.

Italian 7,* 8,* 9.* Lectures in English on Dante. Weekly through the year.

Spanish 4,* 5,* 6.* Classical Course. Two hours through the year.

In Mathematics

Pure Mathematics 11. Modern Methods in Analytic Geometry. Three times a week. Third Term.

Pure Mathematics 8. Determinants. Three times a week. Third Term.

Pure Mathematics 14. Applications of the Calculus. Three times a week. Second Term.

Pure Mathematics 15 and 16. Differential Equations. Three times a week. First and Second Terms.

Pure Mathematics 17.* Theory of Functions. One hour. Through the year.

Drawing 9. Gearing. Three hours. Third Term.

Drawing 10, 11. Advanced Machine Drawing. Three hours. First and Second Terms.

Drawing 15. Constructive Geometry. Three hours. First Term.

Surveying. Courses 9-16 inclusive.

In Chemistry

None of the Courses in Chemistry are exclusively for graduates; but of the advanced Courses, Nos. 4-18 inclusive will be found appropriate for graduates who have not pursued them. Graduate students are afforded all practicable facilities for carrying on, in the Chemical Laboratory, investigations approved by the Professor in charge. Graduate degrees in Chemistry will be conferred only after a large amount of laboratory work.

In Physics and Astronomy

Physics 8. Photography. Weekly. Third Term.

Physics 9, 10. Physical Laboratory Course. Individual experiments. Six hours in laboratory weekly. First and Second Terms.

Physics 11. Special Course in Electricity. Three times a week. Third Term.

Physics 12. Advanced Course. Three hours. Third Term.

Astronomy. For graduates who wish to pursue advanced courses in this branch appropriate work is laid out in theoretical and practical Astronomy. Such students may also assist in the regular observations carried on at the Observatory.

In Comparative Anatomy and Anthropology

Comparative Anatomy 2. Invertebrate Anatomy.

Comparative Anatomy 3 *and* 4. Comparative Anatomy of Vertebrates. Three times a week. First and Second Terms.

Anthropology 1. General Course. Three times a week. Third Term.

In Botany

Botany 4, 5, 6. Advanced Course. Vegetable Morphology, Histology, and Physiology. Three times a week through the year.

GENERAL DESCRIPTION

OF THE

DEPARTMENTS OF INSTRUCTION

I, PHILOSOPHY

The primary aim, both in the required and in the elective studies of this department, is to strengthen and discipline the mind of the pupil, and so far as possible to render him a safe, strong, and independent thinker and investigator.

Psychology is taught as an empirical and experimental science. The philosophical problems involved, though necessarily left unsolved, are yet clearly pointed out. Thus the required course not only affords a constant stimulus to introspection, but forms also a valuable transition from the special sciences to philosophy. In the advanced courses the student is introduced to the chief lines of psychological experiment, and is given an opportunity to study further the most interesting problems and to pursue original investigations in the laboratory.

The course in logic is intended to exhibit the principles of correct thought, whether of the ordinary or of the scientific type; while that in Philosophical Introduction is meant, by awakening reflection on the ultimate problems of life and mind, to prepare the student for the higher courses in pure philosophy.

The treatment of the History of Philosophy is not merely analytic or historical, but synthetic and construc-

tive; the successive philosophical systems are studied in their dialectical development and mutual relations. In addition to the general courses on the history of philosophy, there are special courses for the minute study of individual authors representative of the different periods.

The practical purpose which is present in all the studies of this department becomes especially pronounced in Ethics, the theoretical course in which is intended to aid the student in mastering the fundamental problems of conduct and character. Special attention is given, in separate courses, to the topics of Practical Ethics and Casuistry, now of such peculiar interest to the world.

In the course on the Philosophy of Religion, an attempt is made to analyze and interpret the religious consciousness of mankind, in the light of the history of religions.

In the Philosophical Seminary, the more difficult problems of Logic, Metaphysics, and Philosophy of Religion are made the subject of informal and thorough discussion.

II, GREEK LITERATURE AND HISTORY

The studies in this department are prescribed for the Freshman year, and elective for the Sophomore, Junior, and Senior years.

The courses of instruction and study aim to give the student a critical knowledge of the language, to secure for him facility in reading and appreciating Greek authors, and to interest him in the study of the literature, civilization, and life of the ancient Greeks.

For those who are candidates either for the higher degrees or for honors, the courses of reading may be greatly extended.

The President's Premiums for excellence in the preparatory Greek studies are awarded after a special examination at the beginning of the Freshman year.

The Foster Premium for the highest excellence in the Greek language is awarded after a critical examination at the close of the Senior year.

III, ROMAN LITERATURE AND HISTORY

The studies in this department, as in Greek, are prescribed for the Freshman year, and elective for the Sophomore, Junior, and Senior years. The courses of study have been specified in preceding pages, but other authors than those named may be read in different years.

The courses of the Freshman year are based upon prose writers. While grammatical study and literary criticism receive attention, the special aim is to enable the student to acquire facility in reading and to instruct him in the use of the Latin texts as a means of acquiring a knowledge of the public and private life of the Romans. Special topics are assigned to committees and to individual students for investigation, and lectures are given by the instructors.

The courses which are open to the Sophomores relate to lyric poetry and satire. The literary side of the study is made prominent. The instructor endeavors to aid the student in appreciating the characteristics of Roman thought and the literary quality of Roman poetry. A part of the time is occupied with a critical study of the form and structure of the poems, while a part is devoted to rapid reading with a view to comprehending the spirit of the authors. Lectures are given by the instructor, and literary topics are assigned to the class for special study.

The advanced course, open to Juniors and Seniors, relates to the development and history of Roman literature. Poetry and prose are discussed in alternate years. The aim of these courses is to give a connected and comprehensive view of the entire range of Roman Literature. Compar-

atively little time is occupied with the formal work of recitation. Lectures are given by the instructor on the lives and writings of the authors and characteristic selections are read and discussed. Topics in literary history and criticism, adapted to individual tastes, are assigned to members of the class for special study and investigation.

The President's Premiums for excellence in Preparatory Latin are awarded after a special examination at the beginning of the Freshman year.

Classical Seminary

In the interest of high and independent scholarship in the classical department, a commodious room has been opened in Sayles Memorial Hall for the purposes of a Classical Seminary. It is supplied with an extensive special library purchased with funds generously contributed by friends of the University interested in Classical Studies. The books have been selected with special reference to the needs of advanced students. It is the aim of the department to make this room with its literary treasures and other appliances an attractive and inspiring place for independent work, where students pursuing special lines of study and research may find within their reach the needed helps.

The Seminary is primarily intended for graduates and honor students, but it is open also to such members of the elective classes in the department as are qualified to profit by its advantages.

The room is lighted by electricity and is open throughout the day and evening.

IV, THE FINE ARTS

In the belief that the Fine Arts have contributed powerfully to the development of civilization, provision has

been made for instruction in the history of the Fine Arts. The courses of instruction, open to Seniors and Juniors and to graduate students, will be of two kinds, general and special. The general courses are adapted to the acquirements of the average student, and are so arranged as to meet the needs of those who wish to take merely a brief but comprehensive course in the subjects. At the same time they are a preparation for the special courses, for which also some special attainments, particularly in the use of the languages containing technical literature, will be an indispensable requirement.

A general course in Classical Archaeology is offered. In this course a rapid review of the art of Egypt and of the Orient precedes the study of the earliest Hellenic art. The development of Greek art through its several periods and in its different schools follows, and the course closes with the decadence of art in the Roman period. The text-book, Collignon's Manual of Greek Archaeology, translated by Wright, is supplemented by lectures and by collateral reading. The plaster casts in the Museum of Classical Archaeology, photographs, engravings, etc., are used to illustrate the subject.

The object of this study is to bring the student near to those quickening and controlling motives in ancient life, especially in the life of the Greek people, which found expression in the forms of Art. The attempt is made to study the most significant specimens, to note the most important facts, and to secure a solid basis for later and more special studies in Archaeology and in the criticism of Art.

A knowledge of Greek, Latin, German, and French is most helpful to those who pursue this general course, but is not indispensable.

In the special courses in Classical Archaeology the subject will be treated more in detail, and the sources will be studied. This will involve the reading of the ancient literature on the subject, the works of modern investigators and explorers, and as critical a study of the monuments of art as the means of illustration at command will allow.

In the later periods a similar method will be followed. The earlier courses will be general, brief, and comprehensive, and preparatory also to the later special courses. They will comprise instruction in the history of Early Christian art, Mediaeval art, the art of the Renaissance, and modern art. These special courses may be varied considerably from year to year.

V, SEMITIC LANGUAGES AND ORIENTAL HISTORY

In the elementary courses in Hebrew, Arabic, and Assyrian, an effort is made to ground the student thoroughly in the principles of the grammar of these respective languages and to enable him to translate easy prose with facility. In Hebrew, for example, after the elements of grammar and the first eight chapters of Genesis have been studied carefully by means of Harper's text-books, easy narrative prose is taken up, to be followed by more difficult selections as the student's grasp of the language improves.

Two advanced courses in Hebrew are offered. In the first of these, which is given in the first term, while special attention is given to the syntax, the student's vocabulary is increased by the reading of selections from the Historical Books and Psalms. The second advanced course, which is given one hour a week through the year, is devoted to the study of the Book of Isaiah. Careful atten-

tion is paid not only to the translation of the Hebrew text, but to the condition of that text itself and to some, at least, of the critical questions which arise in connection with this book.

In Oriental History three courses are offered, any one of which may be taken independently of the other two. The first, which runs through the first term, is designed to present a general survey of the ancient Orient, and the endeavor is made to give the student some insight into the great civilizations of the valley of the Nile and of the Tigris and Euphrates. Special attention is paid to the history of the Semites. The geography of Palestine is studied, and photographs of many of its most interesting spots are shown.

In the second term a course on the rise and spread of Islâm is offered. The life of Mohammed, the religion which he founded, and the Koran, which is the chief oracle of that religion, are studied. Then follows a general survey of the conquests of the Moslems, till the conflict of East with West in the Crusades.

In the third term the history of the Crusades is studied with special reference to the history of Islâm during the eleventh, twelfth, and thirteenth centuries.

All the courses in this department are open to graduate students, and additional courses will be arranged for any student, possessing the necessary preparation, who may desire to do advanced work.

VI, RHETORIC AND ORATORY

The aim of the course in Rhetoric is to give a thorough and systematic training in the principles and practice of English Composition. The different kinds of composition are set forth in their logical relations to each other; and

essays and orations, whose plans are based upon specific rhetorical methods, are required from the student.

In the Freshman year the purpose is to ground students in the principles of rhetorical construction as applied to the sentence and the paragraph. Particular attention is also paid to the formation and analysis of the Plan as a fundamental process in composition.

In the Sophomore year the subject of Style is studied, with reference to the characteristics of prose diction as determined by the subject and occasion ; also general processes in the discovery and arrangement of material are considered, including different forms of presenting the same. Narration, description, exposition, argumentation, and persuasion are discussed theoretically, and practically applied in essays written according to the principles of each method,—six in all during the year. Readiness of expression is cultivated by means of composition in the class-room, upon themes with which the student is sufficiently familiar to begin a thought-process at once. These paragraphs, as well as the essays mentioned above, are subject to criticism and correction. Reports upon subjects assigned for personal research are from time to time presented in writing. There are also oral discussions of questions of present interest. In addition, the rhetorical analysis of English masterpieces is made a part of the daily recitation. Almost every type of writing is examined in this way, concluding with a study of the Oration as a special and comprehensive literary form, and as preparatory to the rhetorical work of the following year. An Honor Course in the Science of Rhetoric is offered to this class.

In the Junior year five orations are required of each student. After correction, revision, and rehearsal before the Instructor in Elocution, they are delivered in the presence of the class.

A course of lectures on the History of Oratory is given during the year, to which members of the Senior and Junior classes are admitted. The periods covered by these lectures may be designated as the Greek, Roman, Patristic, Mediaeval, Reformation, Parliamentary, and Congressional. Occasional oratory is considered under the forms which it includes. An Honor Course in Deliberative Oratory is offered to those who attend these lectures.

Elocution

The course in Elocution for the Sophomores includes lectures on the fundamental principles of speech; breathing, formation of tone, articulation, pronunciation, stress, emphasis, position, gesture, with such drill exercises in vocal development as will assist the student to become an effective speaker. Oral readings and frequent declamations by members of the class afford opportunity for personal criticism and for the correction of individual faults of utterance.

For the Juniors the work of the year consists in the writing, the rehearsal, and the public delivery before the class, of five orations by each member.

The Seniors have especial drill preparatory to Commencement.

VII, ENGLISH LITERATURE AND LANGUAGE

Courses are offered in both language and literature. In the main the two kinds of work are kept apart, in the belief that each can be done more thoroughly by itself.

The elementary course in Anglo-Saxon is intended to serve as an introduction to the more advanced courses in language work and to prepare students to read ordinary Old English prose. In the advanced course in Anglo-

Saxon, Béowulf and the Elene are read with attention to both language and antiquities; and one hour a week is devoted to the special study of English Phonology. The work in Middle English consists in extensive reading of Middle English texts and the study of Middle English dialects. The course in Chaucer is linguistic, aiming chiefly to introduce the student to Chaucer's poetry and to enable him to read it intelligently. The study of Shakspere is partly linguistic and partly literary; two hours each week are devoted to the interpretation of the text of selected plays, the third to topics in Shakspere's life and art and the development of the drama in England.

The literary courses form an approximately complete system, covering all the main periods. In the elementary work authors are taken up in chronological order. In the advanced courses literary types, as the drama, the novel, the lyric, are studied by themselves. The general method is to study the literature itself at first hand. The end sought is culture rather than information. The extensive and the intensive method are combined: wide reading, to get atmosphere and breadth of view; critical study of smaller portions, to develop accuracy and acumen.

VIII, HISTORY

The course of instruction in History, continues throughout the Junior and the Senior year. During the first two terms of the Junior year it is required. Except in these two instances, all the courses are elective. All are open to both Juniors and Seniors, except the courses in American History, which, it is thought, cannot be satisfactorily pursued until after the required course in European history has been completed. Besides the general course in the history of mediaeval and modern Europe, opportunity is presented for the more detailed study of English His-

tory, of the Renaissance and Reformation, and of the History of Europe since 1815. A comprehensive course in American History is given during the first two terms of the Senior year. It is succeeded by a course consisting of practical exercises in American History, by which advanced students may be trained in original research and introduced to the higher departments and methods of historical study. The work in this course is carried on with great freedom. Those pursuing it meet as a class only occasionally, by far the greater part of their instruction being given to them individually, among the books in the library. To graduate students of history, besides the opportunity of following advanced undergraduate courses which they have not previously taken, lectures are offered on the principles of Historical Criticism and on the development of Modern European Historiography. A practical course in the dissection of early English history illustrates the former of these courses, and trains the student in method.

The Seminary of History, Political Economy, and Political Science, consisting of the four instructors, the graduate students, and a few of the most advanced undergraduates, is an organization designed to foster by co-operation the practice of original research in the subjects named, to familiarize students with methods more advanced than those of the ordinary college class, and to incite them to interest and active participation in the higher branches of work in History, Political Economy, and Political and Social Science.

IX, POLITICAL AND SOCIAL SCIENCE

The course of instruction in Political and Social Science continues throughout the Junior and the Senior year. All courses are elective and open to both Juniors and Seniors.

In Political Science, elective courses are offered in the study of the origin and development of the State, its conditions, forms, end, and functions ; and in the comparative study of European Constitutions. Courses are also given in the study of International Law and International Relations, and in the study of the Constitutions and Politics of the United States. The aim of this course is to pass from the abstract idea of the State to the concrete embodiments of the idea and thence to the study of the relations existing between these as shown in the study of International Law and International Relations.

In Social Science, courses are offered which deal with the Principles of Sociology and the Development of Primitive Civilization, and with Modern Social Problems. As in Political Science so in Social Science, a continuous and systematic course is presented, beginning with elementary principles and leading up to the discussion of present problems.

X, POLITICAL ECONOMY

The work in Political Economy comprises an elementary course and three or more advanced courses, each three hours a week. The elementary course extends throughout the year and is open to Juniors and Seniors. This course is based upon a text book (for the present year J. S. Mill's Principles of Political Economy) supplemented by lectures, and by reading and essays on the part of the class.

Each of the advanced courses occupies one term, and is open to Seniors who have completed satisfactorily the elementary course and to such students as may have done an equivalent amount of work elsewhere. The course for the first term will be regularly devoted to the history of economic thought, based, for the most part, on a careful

study of the authors treated. The courses for the other two terms will vary from year to year, treating of such subjects as money and banking, public finance, the history of economic life, the railway problem, the tariff question, theory and history of international commerce, the labor problem, the State as a factor in economic life, etc.

In addition to the above courses, advanced students of special ability are offered an opportunity to take part in the work of the Seminary of History, Political Economy, Political and Social Science, described in connection with the department of history.

In all courses the subject is taught from the purely scientific standpoint, though the effort is constantly made to show the bearing of economic principles on questions of economic life.

XI, GERMANIC LANGUAGES AND LITERATURES

The study of German may be pursued four years as undergraduate work, in recitations three times or more a week, and may be continued by graduate students in advanced courses of one, two, or three years' duration.

Undergraduate Courses

Of the courses specified on pages 68, 69, 70, the first twelve are designed specially for undergraduates, though any of the other courses are open to such of the undergraduates as show that they are prepared to profit by them. During the first year the main aim is to lay a thorough foundation in the language, and careful attention is given to forms and to syntax, enforced by daily drill in inflection, in parsing, by written exercises, and by practice in speaking. A large variety of short pieces in

prose and verse is studied from the best modern authors, and each piece is read aloud in German, translated, analyzed, and construed. Proper attention is given at the outset to literary quality, but the principal stress is laid upon the language side of the study.

After the first year the literary aim is the dominant one, though the grammatical side of the language is not lost sight of, yet very little time is given to class-room drill. The aim is to lead the student to an appreciative acquaintance with modern German Literature by a careful study of a few masterpieces of the principal writers: Heine, Schiller, Lessing, Goethe. Considerable collateral reading and much reading at sight is required of all the classes. The Honor Courses consist of a large amount of additional reading from a variety of authors, but mainly from the same author whose works the class is reading.

Graduate Courses

The courses from 13 to 30 inclusive, are designed primarily for graduate students, though open to undergraduates, as the undergraduate courses are open to all graduates who have not already taken them. The courses are arranged to meet the wants of those who are intending to make a specialty of Germanic Studies.

1, *The Courses in German Literature*, 10, 11, and 12, are open to all who are prepared to profit by them, whether undergraduates, graduates, or persons in no other way connected with the University. During the first term the history, institutions, and character of the early Germans are discussed, the earliest pieces of literature are analyzed, the era of Karl der Grosse examined, the greater epics and the rich lyric poetry of the Swabian era carefully studied, the Meistersänger, the Renaissance, the Reformation, and

the Imitative Schools of the Seventeenth Century discussed. During the second term the modern period of literary bloom is taken up; and the life and works of Herder, Klopstock, Lessing, and Wieland, and the character and influence of *Der Göttinger Dichterbund* and *Die Sturm-und-Drang-Periode* are studied. During the third term the life and works of Goethe and Schiller are the principal objects of attention, though some time is given to the Romantic School and to later writers. At each meeting the members of the class are required to submit a report of the work done. Special topics are assigned for essays, and each member is required to read before the class at least one essay each term.

2, *The Middle High German Courses* extend over two or more years. A general course is given during the first year, open to all persons desiring to become acquainted with the rich literature of the Swabian era. Sufficient attention is given to the language to enable one to read with facility, and by lectures and reading, mainly from *Das Nibelungenlied*, the class is introduced to the literature of this period. During subsequent years, a more critical study is made of the language, style, and versification; the Court Epics and Minnesingers are critically studied.

3, *Old High German* is studied one year, for the purpose of laying a broader foundation in the study of Germanic Philology, and the attention is directed almost entirely to the language side of the study.

4, *Gothic.* Here the aim is almost entirely philological. The forms and syntax are studied with much care. *Ulfilas* is read as a basis of comparative study. Each word is traced out not only in the Old High, Middle High, and New High German, in Anglo-Saxon, English, and Old Norse, but also in the older branches of the Indo-Germanic fam-

ily, Sanscrit, Zend, Greek, and Latin ; and the laws governing the changes in form are studied.

5, *Old Norse Language and Literature.* This course will offer such instruction in the language as may be necessary to read Icelandic authors, and incidentally such as will aid in the scientific study of the Northumbrian dialect in Old English. In the literature the more important pieces of the Poetic Edda will be read critically, as a foundation for the study of Germanic mythology and the poetry of the North, and one of the shorter prose Sagas as an introduction to the Saga literature. The nature and scope of the Saga literature will be dealt with in lectures.

6, *Germanic Mythology.* This course will consist of an examination of the number and character of our sources of knowledge of Germanic mythology ; of the application of the modern critical historical method to the study of these sources ; and of the tracing out, by the aid of comparative mythology, of the origin of some of the most important myths that have impressed themselves upon Germanic literature. The *Lehrbuch der Germanischen Mythologie* of Meyer will be used as the basis of the course, which will be conducted, however, mainly by lectures and investigation of the sources, for which the German Seminar Library offers an unrivalled opportunity.

7, Special subjects are assigned to advanced students which call for critical research.

The German Seminary

The design of the Seminary is to afford to graduate students and to such of the undergraduates as are pursuing advanced courses, facilities to meet daily the officers of the department for consultation and guidance. For this purpose two commodious rooms in Sayles Memorial

Hall have been set apart and furnished at great expense by the University. Here will be found the "*Conant German Seminar Library*," collected last year by Professor Williams in Germany in the name of the donor, Hon. Hezekiah Conant. Other generous contributors have added to the fund, until the collection is now worth upwards of *Ten Thousand Dollars*. The main collection has been made along the lines of Literature and Philology, including all the leading Zeitschriften. Many works upon German History, Culturgeschichte, History of German Law and of German Art, upon Palaeography and Geography have been added.

Fifteen hundred dollars have been put into works of art, bronzes, copper and steel plate engravings, and illustrated works. It is hoped that this seminary may become a centre for all advanced Germanic studies in this vicinity, and all gentlemen and ladies interested in such studies are cordially invited to make use of the advantages here afforded. The rooms are usually open from 8 A. M. to 10 P. M. daily; and one or more of the officers of the department may be found there during these hours.

XII, ROMANCE LANGUAGES AND LITERATURES

French

Candidates for degrees are at their entrance to college examined in French grammar and in reading easy French prose at sight. For those who offer German instead of French, a special course is arranged during the Sophomore year, though all are earnestly advised to do their first year's work in French outside. The work of the Freshman year, which is required, is devoted to the study

of the language. The object of this course is to enable the student to read ordinary French without referring to grammar or dictionary any more than is absolutely necessary. Two hours a week throughout the year are devoted to rapid translation after preparation, and to translation at sight, of contemporary novels and plays. One hour a week the instructor reads to the class in French, translating only what is necessary, with the object of familiarizing them with the spoken language and of weaning them from dependence upon English as an intermediary between the text and the thought. Great stress is laid upon this part of the work. Owing to the size of the classes nothing can be here attempted in the way of writing or speaking. Provision is, however, made later in a special course to meet this want. After the Freshman year all courses are elective, and may be taken by any who meet with the instructor's approval. Full provision is made for any who wish to take a full course in French Literature from contemporary authors to the old French Literature of mediaeval France. Those having only a couple of years to give to the subject are advised to elect in turn Courses 4, 5, 6, and 7, 8, 9, which take up a study of the masterpieces of the two greatest periods, that of the Romantic School and Victor Hugo, and that of the Classical School and Corneille, Racine, and Molière. In these the works taken up are presented to the class in the original by the instructor, who incidentally imparts information in regard to French life, manners, history, and art. Frequent examinations based upon the work covered in the class-room and upon outside reading, test the work of the class. These courses are distinctly literary and artistic in their object, and hence frequent illustrations will be drawn from the rich fields of English Literature and French Art.

Graduate Courses

All other courses are intended for Seniors or graduate students intending to make special studies in the field of the Romance Languages and Literatures. Two successive one-hour courses are offered in French grammar and for the practice of writing French, in connection with which some effort is made toward speaking in the same. The literatures of the eighteenth and sixteenth centuries are read with reference respectively to the political and artistic movements of the time, some attention being paid to the development of diction and spelling of the period. The course in Old French Literature serves also as an introduction to the study of Romance Philology. Special fields of study and investigation will be arranged for competent candidates for advanced degrees.

Italian and Spanish

The general aim of the introductory courses in Italian and Spanish respectively is similar to that of the course required of Freshmen in French, namely, the acquisition of the ability to read fluently modern authors. The classic courses are literary and necessarily devoted to the study of the great masterpieces of the two literatures. In Italian 4, 5, 6, the whole of Dante's Divina Commedia is read by the class in the original. Italian 7, 8, 9, is a new course to be offered in 1893–94 for the benefit of all literary students of the University who would like to make a careful study of the greatest masterpiece of the Middle Ages and one of the great world-poems, but who cannot give two years to the study of the Italian language necessary to reading it in the original. It is trusted that this course of "Dante in English" will meet the unexpressed wants of a large number.

The Romance Department Room

A special room, Sayles 4, has been set aside for the use of advanced students in the Romance Department, and is furnished with shelves, tables, and electric lights. Here it is proposed to collect a special library and conduct all graduate courses. The professor in charge expects to be on hand so as to give informal assistance and advice to those admitted to its privileges. A large number of books have already been collected and it is hoped that gifts from friends of the University, not only in the way of books but of engravings and works of art illustrating the literatures studied, will soon increase the value as well as the attractions of this important feature of the department's work.

XIII, PURE MATHEMATICS

Mathematics is prescribed during the Freshman year for those students entering for the degree of Bachelor of Arts and Bachelor of Philosophy, and elective during the remainder of their courses. These required courses are essential to a thorough knowledge of the elementary principles of mathematical science, which prepares the student for any advanced mathematical work. They serve also to discipline the mind to careful analysis and strict logical methods of thought and to the development of the reasoning powers. The invaluable faculty of exact expression they likewise cultivate.

In the higher elective classes in the Pure Mathematics the aim is also two-fold : first, mental discipline for those students who do not intend to pursue the subject further; and second, a thorough mathematical foundation for those who desire to make mathematical studies a specialty.

XIV, APPLIED MATHEMATICS

The studies in applied Mathematics, while eminently disciplinary, are arranged with special reference to professional work or scientific investigation.

Here as in the pure mathematical studies students are required to perform original problems bearing upon and illustrating the principles under consideration, and, so far as possible, similar to those with which students will be likely to meet in their professional work.

I, Mechanics

1, Elementary Mechanics, embracing the fundamental principles of Mechanics, treated from a mathematical point of view, with such experiments as are necessary to illustrate principles.

2, Mechanics of Engineering. The following are among the subjects considered: The laws governing motion and force, Statics of rigid bodies, Theory of the Centre of Gravity in surfaces and solids, Equilibrium and Dynamical Stability of bodies rigidly fastened, Resistance of Friction, Elasticity and Strength of Flexure, Shear and Tension, Hydraulics, embracing the structure and use of hydraulic machines, the investigation of the laws which govern the flow of water from reservoirs and the flow of water in rivers, canals and conduit pipes, and water as a motor.

3, Theory of Structure, embracing the construction of Foundations in all classes of soils, Pile Foundations and Substructures, Stability of Blocks of Stone or Brick entering into the structure of walls of buildings, Arches, Retaining Walls and Piers, and trigonometrical Calculations of Strains on different varieties of framed structures, including Trussed and Suspension Bridges, with both steady and rolling loads.

4, Graphical Analysis of strains on Roof and Bridge Trusses and other framed structures, and strains on cables and other portions of Suspension Bridges.

II, Drawing

Instruction in Mechanical Drawing is based upon Pure Mathematics, and the aim is not simply to teach men how to draw but how to think and investigate for themselves. Rules and formulas employed in problem construction are used only after they have been thoroughly discussed and satisfactorily proved. Both the theory and the practice of the subject are taught, and an effort is made to bring before the students those principles which will be most needed in handling the complicated problems of the mechanical world. All work in the department is regulated by a schedule which defines the nature and amount of work to be accomplished each week. Drawings which fall below the standard are rejected, and reconstructions required. In this way tendencies toward carelessness are eliminated, and a good quantity and quality of work is secured.

In Freehand Drawing students are required to make sketches of models as they appear from individual standpoints. The aim is to make the eye quick and accurate in observation and the hand skillful in representation. The course in Constructive Geometry is a direct application of Pure Mathematics. Problems are assigned without any direction in regard to their solution, and students are required to investigate and report.

In Machine Drawing machines are taken apart and fully explained. The various portions are then sketched, named, detailed, and assembled. The assembled drawing, which is a combination of the details, is constructed from the details and not from the machine itself.

A library for the use of students interested in Mechanical Engineering has been started in the drawing room. Through the generosity of friends a number of valuable works have been secured. Funds are already in hand for the purchase of others.

III, Civil Engineering

The course leading to the degree of Civil Engineer occupies four years. Any part of the course is open as an elective to all students prepared by previous work to pursue it to advantage.

The subjects peculiar to the course are as follows :

1, *Elementary Surveying*, comprising recitations, field-work, and plotting. In these are embraced a study of the nature, use, and adjustment of Engineering Instruments, Compass and Transit Surveying, Computation of Areas, Supplying Omissions, Laying Out and Dividing Land, Levelling, and Topography.

2, *Advanced Surveying*, comprising recitations, field-work, and plotting. Topographical Surveying by the Transit and Stadia, Hydrographic and City Surveying, and Plane Table Work.

3, *Railroads and Highways.* A thorough study of Railroad Curves, and Earthwork. Construction of Railroads and Highways. Investigation of special problems in Railroads. The actual preliminary survey, plotting and location of a short line of railroad.

4, *Masonry.* Materials, Design of Arches, Dams, and Retaining Walls, Foundations.

5, *Hydraulics.* Theoretical and Practical, Investigation of Experiments, Field-work in measuring flow of streams.

6, *Structures and Materials.* Course not yet outlined; it will embrace a thorough study of Framed Structures,

and the Materials of which they are constructed. Calculation for different loadings, Maximum and Minimum stress, Deflection, Calculation by Graphical Methods, and Details of Construction, with a large amount of work in Design.

7, *Geodesy.* A brief course on the figure of the earth, and some special problems in Geodesy.

XV, CHEMISTRY

The department of Chemistry is intended to afford instruction in the general principles of Chemistry, in Analytical Chemistry, and in the practical applications of these subjects. Opportunity is afforded for studies in Metallurgy, Medical Chemistry, Agricultural Chemistry, and in the chemistry involved in the bleaching and dyeing of textile fabrics.

The courses are not confined to undergraduates, other persons, if prepared to pursue the study to advantage, being admitted; but a knowledge of the general principles of Chemistry is absolutely necessary to profitable work in any of the more advanced courses.

The course for the first year covers three grand divisions: the study of the non-metals, of the metals, and of the carbon compounds. The course for the second year includes qualitative analysis and elementary quantitative analysis. Work in the other branches mentioned may follow that specified for the first two years. In all cases students perform laboratory work and attend lectures. The lectures in this department deal with the experiments of the students, and also with chemical philosophy, stoichiometry, and new applications of chemical substances in recent inventions.

The Chemical Laboratory is open to students from 8.30 A. M. to 3.30 P. M. on every week day except Saturday.

For laboratory fees, etc., see Index, under "Expenses."

XVI, PHYSICS

Wilson Hall is well constructed and equipped for its purposes as a Laboratory for the experimental study of Mechanics and Physics.

The Workshop and the Physical Laboratory are open to students five days in the week, from 9 A. M. to 6 P. M.

The course in the Workshop is offered to those who have mechanical tastes and aptitudes but may not wish to pursue courses in the mathematics of the subject.

For admission to the work of the Physical Laboratory a familiarity with the elements of Mechanics is required, and also a fair knowledge of the fundamental facts and theories of Sound, Light, Heat, and Electricity. The general deseriptive course (1, 2,) offered to the Sophomore Class is intended to meet this second requirement. It is a course of lectures abundantly illustrated by experiments. A quiz on the topics treated in the preceding lecture, with occasional written examinations serve to test the progress of the class. This course is intended also as an outline of the subject for those who wish to follow it merely as an element of general culture.

For those desiring to pursue Physics more in detail than is possible in the general course, a more advanced course is offered. In this a text-book will be used. Special attention will be given to those parts of the subject not adequately treated in the lectures, and the mathematical treatment of Physical problems will be made a prominent feature.

The laboratory work, supplemented by the mathematical courses given in the University, is planned to give a thorough preparation for the special study of Physics.

An elementary course in Electricity is offered to those having a special interest in that subject. The text-book used is Elementary Lessons in Electricity and Magnetism, by Sylvanus Thompson. The laboratory work consists mainly in the use of electrical instruments, and practice in the methods of electrical testing and measurement.

Graduate Work in Physics. The Physical Laboratory is open to those whose training warrants their undertaking advanced work ; and the instructors in charge are glad to supply such students with every facility consistent with the regular work of the Laboratory.

For special expenses in the Physical Laboratory and in the Shops, see Index, under "Expenses."

XVII, ASTRONOMY

The courses of study at present offered in Astronomy are four, two lecture courses in General Astronomy and two laboratory courses in Practical Astronomy. The lecture courses are designed to acquaint the student with the fundamental conceptions of the science, the methods of its professional study, and the present state of our knowledge of the heavenly bodies. A general treatise of Astronomy is made the basis of these courses and is supplemented by lectures and by abstracts upon assigned topics prepared by members of the class. The laboratory courses comprise a technical study of the theory of astronomical instruments and practice in their use. The sextant, transit, zenith telescope, and equatorial are taken up in turn, and the astronomical problems of Navigation and Geodesy solved by actual observation and calculation.

The Ladd Astronomical Observatory

The Observatory is equipped with a Saegmuller-Brashear equatorial of twelve inches aperture, which is supplied with a filar micrometer, spectroscope, and other attachments; two transit instruments, one of which can be used as a zenith telescope; a chronograph; two astronomical clocks; several sextants and chronometers; recording meteorological apparatus; and various minor instruments. The equipment is available for illustrating the general courses in Astronomy and for practical use in the applied courses open to undergraduates.

XVIII, ZOÖLOGY, GEOLOGY, AND ANTHROPOLOGY

Zoölogy is taught to the Juniors and Seniors by lectures, demonstrations, and laboratory work. It is the aim to adapt the lectures to the needs of the general student. It is taken for granted that no liberally educated person should be without a general knowledge of the principles of Zoölogy, the laws of Animal Morphology, the relations of animals to the world about them and to man, and the probable mode of their origin, including the subject of heredity, hybridity, the variation of species, and the views now held by different schools of evolutionists.

Specimens of the following rarer types have lately been procured for use in this department: African lung-fish (*Protopterus*), *Polypterus*, *Siren*, *Amphiuma*, *Caecilia*, and a skin and skeleton of the Australian spiny ant-eater (*Echidna*); also skeletons and other osteological preparations of fishes, batrachians, lizards, birds, and mammals, and valuable histological and embryological preparations.

Geology

Instruction in Geology is given during the first and second terms, by means of lectures, laboratory work, and field excursions, with especial reference to the geology, structural and economic, of Rhode Island. The lectures are illustrated by diagrams, models in wood and plaster, lantern views illustrating volcanoes, earthquakes, and other geological phenomena, and fossils. During 1885, the palaeontological collection was rearranged and labelled for the use of students. The fossil flora of Rhode Island is fully represented, and important animal remains of the Rhode Island carboniferous rocks were added in 1888 and 1889.

The course includes lectures in laboratory work in elementary Mineralogy and Lithology. Many duplicate crystals have been purchased, and the students are allowed to use them freely in their work. A special collection of Rhode Island minerals and rocks has been formed, and additional European educational specimens secured.

Through the kindness of Commander Bartlett, U. S. N., two large models from the office of the United States Hydrographic Bureau, Washington, one of the Atlantic ocean-bottom and one of the Caribbean sea-bottom, were deposited in the lecture-room in 1889. Additional models in plaster and *papier-mache* were added in 1892.

Anthropology

Instruction in Anthropology is offered as a Senior elective in the third term, to consist of a course of lectures on the physical or natural history of Man. It embraces the principles of Ethnology, Ethnography, and Prehistoric Archaeology. The course treats of the following topics :

1, Man as related to other Primates, including the differential characters of Man.

2, The Human Races.

3, The Pre-historic Races and the Antiquity of Man.

4, The Origin of Man.

5, Language and Race; Writing.

6, The Arts of Life: Amusements.

7, Primitive Culture, including Folk-lore, Myths, and primitive religious Cults.

8, Primitive Society.

The course is illustrated by a series of relics in bone and stone of the pre-historic races of Europe, by American stone and bone implements, and collections from New England shell heaps, and by lantern views illustrating the fossil races of man in the Old World.

XIX, COMPARATIVE ANATOMY

The Courses in Comparative Anatomy, three in number, continue the more introductory biological courses of the preceding years during the latter part of the Junior and through the first two terms of the Senior year. The Junior course is a laboratory course in Invertebrate Anatomy, and is better pursued as a supplementary course to Zoölogy. The more typical invertebrate animals are dissected, and certain anatomical preparations are made by the students. A limited number of collecting trips are made to the more promising localities along the shore.

During the first and second terms of the Senior year Vertebrate Anatomy is alone considered. Though the course is nominally a laboratory course it is expected that the students will do a large amount of work outside the

class-room. It is also expected that students electing this course do so because they take a special interest in the subject. Many of the typical vertebrates are dissected and a large portion of the time is devoted to the gross anatomy of the dog.

A course in Biology will be offered to Sophomores the present year. It will extend through the third term and will be a practical laboratory course. The external and internal anatomy of one of the lower vertebrates will be considered, and certain simple laboratory methods and demonstrations will be explained.

It is designed to make the courses in Comparative Anatomy of immediately practical value to those who intend to study medicine. On page 86 an outline of the Medical Preparatory Course is given.

A students' Biological Club has recently been formed for a more careful examination of the current biological literature and for the consideration of biological questions of general interest.

The Anatomical Laboratory is a large, well-lighted room, fully equipped with microscopes, microtones, reagents, etc. There is also an excellent collection of preserved anatomical material, which is placed at the disposal of the students.

Marine Biological Laboratory

The University has control of two of the "tables" at the Marine Biological Laboratory, Woods Holl, Mass. Students who have creditably pursued certain of the courses in Zoölogy or Comparative Anatomy may make application for appointment to these tables, where, during the summer months, most exceptional opportunities are offered for biological investigation.

XX, PHYSIOLOGY

During the third term a number of lectures are given to the Freshman Class upon matters relating to personal hygiene. Attention is called to the important laws of health, and practical advice given in regard to exercise, hours for study and sleep, the care of the digestive functions and the eyesight, and upon other matters in which the habits of students are so often faulty.

In the Junior year elementary instruction is given in Anatomy and Physiology, the subjects being considered from a scientific rather than from a practical point of view. The object of these lectures is to lay the foundation for a study of the morphology of the lower animals, those organs and functions which are of particular interest in connection with this receiving the most attention.

This course together with the courses in Chemistry and Biology is especially adapted to students who intend, after graduation, to pursue the study of medicine.

XXI, BOTANY

Instruction in Botany is given by means of lectures and laboratory practice. The course occupies two years.

The first year is devoted to General Morphology and to practice in analyzing and describing plants. A few difficult families, such as *Compositae*, *Cruciferae*, and *Umbelliferae*, are especially treated. Field excursions to neighboring points of interest and visits to conservatories are made. Collateral reading and essays are required.

In the second year histological work and the preparation of microscopic objects are taken up in connection with lectures. Collateral reading is again required, with an occasional paper on some given subject. Only students of marked attainment in Botany are permitted in this course.

Original work and observation is encouraged. Students are required to make illustrative drawings from the objects studied. It is designed in all cases to foster independent reasoning and thoughtful comparison.

The Herbaria and the Museum of Economic Botany

In addition to the large number of herbarium specimens, representing all the orders and most of the important genera, there have been commenced, by the Curator, series of botanical exhibits intended to exemplify the entire range of Botany, in which will be shown so far as practicable everything of vegetable production which provides for the body sustenance or shelter, clothing or protection, or prevents or relieves illness, ministers to man's physical needs or satisfies his love of the beautiful. These embrace: (1) A collection of tree exhibits, so prepared as to reveal the character of each tree, and its varied uses in the mechanic arts. (2) A collection of all fruits and seeds, preserved dry or in spirit, with microscopic exemplification of their internal structure. (3) A collection of all food products with displays of the various processes by which the raw material is made useful. (4) A collection of all textiles, with representations of the methods by which they are obtained.

Such products as the various sugars, starches, gums, resins, oils, will be fully shown, and also the manner in which they are separated from the other matter contained in the vegetables which supply them. All crude vegetable products and their extracts which are of value in Pharmacy will be so presented as to give the student good opportunity to inform himself in botanical Materia Medica.

Under proper restriction all the botanical exhibits are made accessible to the public and to students.

For the slight special fees in connection with botanical study, see Index, under "Expenses."

XXII, AGRICULTURE AND THE MECHANIC ARTS

An extended course of study in Agriculture and the Mechanic Arts is open to all students. It includes the courses offered in the departments of English, Political Economy, Mathematics, Engineering, Chemistry, Physics, Zoölogy, Geology, Physiology, Botany, and Military Science, as given above, and also special lectures on Agriculture. These relate to the study of soils and to applied Economic Zoölogy, according to the following schedule of topics:

Introduction: History of Agriculture, tracing its development through the Jewish, Grecian, Roman, Spanish, and English nations to the formation of agricultural and horticultural societies in the United States, with a brief account of the earlier of these formed within the years 1785 to 1829 inclusive. The subject is then continued by the discussion of the following topics:

I, Primary Condition of Matter. II, Formation of Soil from Inorganic Elements. III, Source of Organic Matter. IV, Constituents of Plants required by Soil. V, Constituents of Soil in the Mass. VI, Results of Experiments with Unfertilized and with Fertilized Soils. VII, Composition of Fertile Soil. VIII, Cardinal Law in Agriculture. IX, Rotation of Crops. X, Discriminating Application of Fertilizers.

Under the general head of Economic Zoölogy are discussed the distinctive characteristics of the most approved breeds of neat cattle, horses, sheep, and swine. Practical instruction is given upon insects, birds, and animals injurious and beneficial to the farmer and horticulturist;

also by the visiting of farms and by obtaining and preserving specimens in Natural History. Taxidermy is also taught when desired by the class.

Following the above course on Agriculture, by Professor Jencks, instruction in Economic Entomology is given by Professor Packard. This course consists of lectures and recitations, and is illustrated by specimens of the insects most injurious to crops.

The above course is arranged in pursuance of the agreement entered into between the Corporation of Brown University and the General Assembly of the State of Rhode Island in January, 1863, by which the University receives the benefit of the Act of Congress approved July 2, 1862, entitled "An Act donating Public Lands to the several States and Territories which may provide Colleges for the Benefit of Agriculture and the Mechanic Arts."

XXIII, MILITARY SCIENCE AND TACTICS

Instruction in these branches is given by an officer of the United States Army, regularly detailed for this purpose. For three hours per week during the Fall and Spring Terms, and one hour per week during the Winter Term, military drill, accompanied by the appropriate theoretical explanations, is required of all Freshmen and Sophomores, and of all special students of the first and second years, unless they are excused for physical disability or other sufficient cause. Each of these students is required to provide himself with the University uniform—blouse, trousers, cap, and gloves. Neat and very serviceable uniforms are furnished through the University, at a cost not exceeding $13 apiece. All necessary arms, ammunition and equipments are provided by the United States Government.

The infantry instruction embraces the school of the soldier, of the company, and of the battalion, besides drill in ceremonies and in small-arm target practice.

The artillery instruction is limited to the manual of the piece, mechanical manœuvres, aiming drill, sabre exercise, and target practice.

Officers are selected and appointed irrespective of class, according to proficiency and particular fitness.

Artillery detachments are selected by the commandant from the students most accomplished in infantry drill.

Target practice is held under the immediate supervision of the commandant, and every precaution taken to guard against accident.

On the graduation of each class, the names of such students as have shown special aptitude for military service are reported both to the Adjutant-General of the United States Army and the Adjutant-General of the State of Rhode Island. The names of the three students most distinguished in the studies and work of this department are, upon graduation, inserted in the *United States Army Register* and published in general orders from the headquarters of the army.

GENERAL INFORMATION

THE UNIVERSITY EXTENSION

PROFESSOR WILFRED H. MUNRO, A. M., DIRECTOR

The purpose of the Extension is to afford the benefits of University teaching to those who cannot attend a University. Lecture Courses are given upon any subject for which there is a sufficient popular demand, in any place easily accessible from Brown University.

The aim of the instructor is to make his course of ten (10) weekly lectures cover about the same ground a College class would go over in ten (10) weeks. The teaching scheme comprises Lectures, Class Work, Essays, Reports, etc. An examination (voluntary) is held at the close of each course, and certificates are awarded to those who pass it.

The University charge for a course of lectures is one hundred dollars ($100).

The Centre is required to pay the traveling and hotel expenses of the lecturer.

Experience has shown that the best work can be done in small classes, of from thirty to fifty persons, and that an attempt to "popularize" a course is unwise. The end and object of the "Extension" is not to amuse but to teach.

It is recommended that each Centre charge a fee of $3 for each course. This will necessitate a guaranteed

attendance of thirty-five people. (Where several courses are carried on by the same Centre, an average attendance of thirty-five should be secured.)

During the academic year 1891–92 the following lecturers were engaged in the work:

President E. B. Andrews,	Constitutional History.
Professor W. W. Bailey,	Elementary and Advanced Botany.
Professor H. C. Bumpus,	Elementary Zoölogy.
Professor C. V. Chapin,	Physiology.
Professor H. B. Gardner,	Political Economy.
Mr. D. W. Hoyt,	Elementary Physics.
Professor C. Langdon,	English Literature.
Professor J. M. Manly,	English Literature.
Mr. W. D. Mount,	Elementary and Practical Physics, and Electricity.
Professor W. H. Munro,	Mediaeval and Modern History.
Mr. L. F. Snow,	English Literature.
Professor W. Upton,	Astronomy.
Miss Mary C. Wheeler,	Art and Architecture.
Professor G. G. Wilson,	Constitutional History.

In addition to the instructors just named, these gentlemen will lecture during the present year:

Rev. C. M. Brink,	English Literature.
Professor W. C. Bronson,	English Literature.
Professor E. B. Delabarre,	Psychology
Mr. J. F. Greene,	History.
Professor A. G. Harkness,	*Roman Life and Literature.
Professor J. R. Jewett,	*The History of the Bible Lands.

* With Stereopticon Illustrations.

Mr. W. C. Langdon, Jr.,	English Literature.
Alfred G. Langley, A. M.,	The History of Music.
Professor W. C. Poland,	*Classical Archaeology.
Mr. H. M. Stone,	English Literature.
Samuel Thurber, Ph. D.,	Pedagogics.
Arthur E. Watson, A. B., (Of the Thomson-Houston Co.),	Practical Electricity.
Professor Alonzo Williams,	German Literature.

Professor Wilson will also lecture upon Political and Social Science. Other members of the University Faculty will deliver lectures if their services are required.

All communications respecting the Extension work should be addressed to the Director, Brown University, Providence.

EDUCATIONAL PRIVILEGES FOR WOMEN

By a vote of its Corporation on Sept. 2, 1891, the University opened all its examinations to women. By a further vote on June 21, 1892, it opened all its degrees to women. By a third vote on June 23, 1892, to women already holding Bachelors' degrees, and to other women of liberal education who may secure special permission, it opened, on the same terms as to men, all those of its courses of instruction which are intended for graduate students.

That is, so far as its graduate department is concerned, the University now places women on exactly the same

*With Stereopticon Illustrations.

footing as men. In respect to instruction, examinations, and degrees, the two sexes are treated precisely alike. The expenses, too, are the same. See below, under "Expenses," "Special University Dues," 6.

In undergraduate studies the University offers to examine all women candidates, and to crown with any of its degrees every woman candidate who passes all the examinations required for the degree sought; but in this department, the University, as such, does not yet offer to women any class-room instruction. First rate undergraduate instruction for women is, however, provided otherwise. See below, page 132.

The conditions of women's examinations upon undergraduate work are as follows:

Women take entrance examinations at the same times and places and under the same conditions as men. See pages 32–42 inclusive. But women candidates may present certificates in place of entrance examinations, subject to the same conditions which apply to men. All women's examinations in college studies are to be taken at the University, none elsewhere.

To be admitted to advanced examinations, candidates must have passed all entrance examinations, as well as all examinations which cover the work of previous terms.

The subjects for women's examinations, when not identical with those in the courses of instruction given in the University, in all cases closely correspond to them.

Reports of proficiency are given after all examinations. Upon the satisfactory completion of any minor course of study, candidates are given certificates of their attainments, while those who complete with credit any of the regular curricula receive diplomas.

THE WOMEN'S COLLEGE,

ADJUNCT TO

BROWN UNIVERSITY

LOUIS FRANKLIN SNOW, A. M., DEAN AND TREASURER

The considerable number of women candidates for undergraduate examinations has induced a number of gentlemen in the Faculty to institute systematic preparation for these examinations. Classes are formed in all the branches elected, and are instructed by the same men who have in charge the corresponding classes inside the University. There has thus sprung into existence a Women's College, technically and legally under the University only so far as its examinations are concerned, yet in effect a department of the University, so closely connected are examinations with the instruction therefor.

The elegant and well-lighted building, 235 Benefit Street, near the University, forms the headquarters of the college. It is open from 9 A. M. till 6 P. M. every week-day during term time, and all members of the classes, as well as all women graduates or other women preparing for the Brown University examinations, are welcome to occupy it, free of charge.

Regular teaching and a regular time-schedule are at present provided only for the first two years, as nearly all undergraduate applicants for college teaching, so far, are of Freshman or Sophomore grade, but any women wishing instruction preparatory to Junior or Senior examinations will be specially provided for on application to the Dean.

Pupils are also admitted to select courses covering but single terms, and even to work in single branches.

Each applicant for registration in such a course must present to the Dean sufficient evidence of her ability to pursue successfully the subject chosen. Also, every select student, unless especially excused by the Dean and by the Professor in charge of her course, must prepare herself for examination at the completion of her course.

Careful attention is given to Physical Culture. Exercises with dumb bells and Indian clubs and in Swedish movements are required of all women students two hours weekly during the second term.

Expenses

To women pursuing undergraduate studies the charges are as follows:

For Instruction: $2.50 per term, or $7.50 a year, for every hour of instruction per week. Thus, each full course of studies, involving the usual fifteen hours of class-room attendance and instruction a week, costs $37.50 a term, or $112.50 a year. Laboratory charges are additional to this. These sums are fixed as nearly as possible by the actual cost of the instruction, not involving payments for any other purposes whatever.

For Examinations: $10 for each full set of examinations, viz.: entrance examinations or examinations on any full term's work. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work. Thus, the examination upon a course which had required three hours in class-room weekly would cost $2.25; one upon a course of six hours, $4.50; and so on.

It will be seen that the total cost to each student, including the examination fees to the University, is under $150 a year, somewhat less than the tuition and incidental

expenses of a student in the University proper. See page 155.

Ladies from a distance wishing to avail themselves of the educational opportunities offered by the University can at present find homes only in private families. Every effort will be made to arrange for any who may apply.

According to its present prospects, the college must in a year or two at most, outgrow its present quarters. The Women's Department of the University must soon have an ample, permanent home of its own, a well-endowed and commodious college establishment, presided over by an accomplished lady principal. Half a million dollars is needed for this purpose, partly for a suitable building (two contiguous ones would be preferable), with kitchen, parlor, dining, recitation, exercise, and debating halls, and dormitory accommodations for fifty or seventy-five occupants, the remainder for scholarships and endowments. No mere "annex" is desired or intended. The college must be part and parcel of the University, giving women students the full University status, and at the same time so furnished, endowed, and equipped as to offer them every facility for education, physical and social as well as intellectual, now anywhere within the reach of male students.

THE UNIVERSITY LIBRARY

The University Library dates from the year 1767, when the Rev. Morgan Edwards collected books for it in England. In 1843, when the Library catalogue was printed, and soon after the removal of the Library from University Hall to Manning Hall, it contained ten thousand volumes.

In 1878, the date of its location in the new Library Building, it contained forty-eight thousand volumes. It now numbers, including the collection of the Soldiers' and Sailors' Historical Society, and the books in the Classical and German Seminaries, eighty thousand bound volumes, and upwards of twenty thousand unbound pamphlets.

The collection of the Soldiers' and Sailors' Historical Society consists of newspaper cuttings from 1861 to 1865, neatly arranged in folio volumes, and of books and pamphlets relating to the war, together constituting an invaluable mass of sources for the history of that period. They are placed in handsome walnut cases on the third floor of the building, and are easily accessible to those who may wish to consult them. The books in the Classical Seminary, numbering one thousand volumes and upwards, were purchased recently by Professor Albert Harkness, friends of the College having contributed funds for this purpose. They relate mostly to the language, literature, and antiquities of the ancient Greeks and Romans. The books in the Conant German Seminary Library, number five thousand and upwards choice volumes relating to the German language and literature. They were purchased in Germany by Professor Alonzo Williams from funds contributed by Gen. Olney Arnold and Ex-Gov. A. H. Littlefield, of Pawtucket, and others, including Hon. Hezekiah Conant, who alone contributed the sum of five thousand dollars. Both of these Seminaries are on the third floor of Sayles Memorial Hall.

Nearly all the volumes, both of the Seminary Libraries and of the Library proper, are well bound and many of them are rare and costly. Most of them have been carefully selected with special reference to the wants of professors and students, to aid in literary, scientific, and historical research. The books of the Library

proper are arranged in alcoves according to subjects, and free access is allowed to the shelves. Upon the tables in the centre of the building are placed the books most recently acquired, along with the standard periodicals, American and foreign, relating to the different departments of study. Behind them, conveniently arranged, are books of reference.

The Library funds amount to fifty-seven thousand dollars. Of this sum ten thousand dollars is a bequest from the late Professor Gammell, for the purchase of books relating to the history of the United States. Ten thousand dollars constitute the Olney Fund, for the purchase of botanical books and plants. Ten thousand dollars constitute the Diman Memorial Fund, for the purchase of works on mediaeval and modern history. The balance is called the Library Fund proper. To this the Hon. Nicholas Brown contributed ten thousand dollars. It also includes a bequest of five hundred dollars from the late President Wayland, and one of one thousand dollars from the late Albert J. Jones.

The Library is open daily for the delivery of books, from 9.30 to 4, except on Saturdays, when it is open from 9.30 to 1. During vacations it is open on Saturdays. The central part of the Library is open for reading and consultation, every evening from 7 to 10; and also Saturday afternoons, from 1 to 4.

The following is a list of donors to the Library, from October 1, 1891, to October 1, 1892, the donor's residence or location being Providence, unless otherwise indicated:

Persons

Dr. Samuel W. Abbott, Wakefield, Mass.; Hon. Nelson W. Aldrich, LL. D., U. S. Senator; Rev. President E. B. Andrews, LL. D.; President James B. Angell, LL. D., Ann Arbor, Mich.; Francis H. Appleton, Boston; Prof. John H. Appleton; H. D. Auchincloss, New York; Estate of the

late Maria M. Benedict; Prof. Eli W. Blake; Frank E. Bliss, New York; William B. Bogert, Chicago; Hon. John S. Brayton, Fall River; Dr. A. C. Brownless, Melbourne, Australia; James S. Buck, Milwaukee; Prof. Herman C. Bumpus; Rev. Dr. Henry S. Burrage, Portland, Me.; R. H. Burnham, Bloomfield, Ct.; Mrs. Harriet E. Carpenter, Newton Centre, Mass.; Frederic H. Chapin, Boston; Rev. Dr. J. O. A. Clark, Macon, Ga.; Geo. W. Coffin, U. S. Navy, Washington; Frederic Arthur Crisp, London; Hon. William E. Curtis, Washington; Rev. Dr. Josiah N. Cushing, Rangoon; Rev. Dr. Robert N. Cust, London; Librarian Wm. R. Cutter, Woburn, Mass.; Estate of Geo. L. Davis, Oxford, Mass.; Rev. Frederic Denison; Jas. H. Dodge, City Auditor, Boston; W. R. Dorman, New York; Rev. Dr. David Downie, Nellore, India; Rev. Dr. Richard Eddy; Eldredge & Bro., Philadelphia; A. C. Fearing, Jr., Boston; Dr. Chas. H. Fisher; William Fitch, Esq.; Gen. D. W. Flagler, Washington; Librarian Wm. E. Foster; Hon. E. L. Freeman; E. L. & A. L. Frothingham, Baltimore; Prof. Henry B. Gardner, Ph. D.; Alfred Gilman, Lowell; Ginn & Co., Boston; H. L. Gordon, Chicago; Dr. John M. Gould, Boston; Andrew H. Green, Esq., New York; Hon. Samuel A. Green, M. D., Boston; Robert Grieve; Librarian Reuben A. Guild; Librarian Morris R. Hamilton, Trenton, N. J.; Walter C. Hamm, Philadelphia; M. Joseph Harson; Col. Rush C. Hawkins, New York; Frederic R. Hazard, Syracuse; Hon. Rowland Hazard, Peacedale; Rev. Henry A. Hazen, Newton Centre, Mass.; D. C. Heath & Co., Boston; Librarian Chas. J. Hoadly, Hartford; Clay W. Holmes, Elmira, N. Y.; Prof. Eben N. Horsford, Cambridge, Mass.; Howe, Balch & Co., Boston; Prof. John F. Jameson, Ph. D.; Ernest H. Johnson, East Providence; Dr. William V. Kellen, Boston; Rev. Dr. H. M. King; E. S. Lacy, Washington; Alfred G. Langley, Newport; H. L. Leavenworth Pub. Co., Detroit; Hon. F. W. Lincoln, Boston; Mrs. John L. Lincoln; President Seth Low, LL. D., Columbia College; Marshall McDonald, Commissioner, Washington; Prof. John M. Manly, Ph. D.; Supt. T. C. Mendenhall, Washington; Hon. Warner Miller, New York; Dr. H. Mohn, Christiana; J. M. Montgomery, New York; W. H. Morrison, Madison, Wis.; E. B. Murray, Cincinnati; William D. Nisbet, City Auditor; S. N. D. North, Boston; Isaac P. Noyes, Washington; Prof. Alpheus S. Packard, Ph. D.; Dr. George B. Peck; William A. Peele, Indianapolis; Prof. John Peirce; Hon. Amos Perry, LL. D.; Rev. Dr. S. Dryden Phelps, New Haven; Prof. F. W. Putnam, Salem, Mass.; Mrs. M. L. B. Rambout, Hamilton, N. Y.; F. H. Revell, Chicago; E. S. Rhodes, City Messenger; King, Richardson & Co., Springfield, Mass.; Hon. J. M. Rusk, Washington; Dr. A. R. C. Selwyn, Ottawa; Lucian Sharpe, Jr.; Mrs. Thos. P. Shepard; Supt. J. H. Shinn, Little Rock, Ark.; John C. Smith, Brooklyn; Scott A. Smith; Commissioner Thos. B. Stockwell; Geo. F. Stone, Chicago; Strauch Bros., New York; Mrs. Edward Tatum; Dr. Samuel Thurber, Boston; William Trelease, St. Louis; Dr. George F. Tucker, Boston; Provost B. R. Uhler, Baltimore; Prof. Winslow Upton; Hon. Geo. H. Utter,

Secretary of State; Henry C. Warren, Cambridge, Mass.; A. T. White, Architect, Brooklyn; Hon. William Whiting, Amherst; Chas. R. Whitman, Lansing, Mich.; Bradley & Woodruff, Boston; Hon. Carroll D. Wright, Washington.

Institutions and Corporations

American Academy of Arts and Sciences; Department of Agriculture, Washington; Bureau of American Republics, Washington; American Antiquarian Society; American Association for the Advancement of Science; American Baptist Missionary Union; American Bankers' Association; American Board of Commissioners for Foreign Missions; Bureau of Animal Industry, Washington; American Orthopedic Association; American Pharmaceutical Association; American Philosophical Society; Baptist Missionary Magazine; City of Boston; Boston Public Library; Brunonian Association; Bunker Hill Monument Association; Geological and Natural History Survey of Canada; Chicago Board of Trade; Chicago Standard; Christian Inquirer; Christian Secretary; Cincinnati Chamber of Commerce; Congregational Year Book; Connecticut Medical Society; Engineers' Department, U. S. Army; Bureau of Education, Washington; Fish and Fisheries Commission, Washington; General Assembly of Rhode Island; Glasgow University; Hartford National Bank; Harvard University; Indiana Department of Statistics; Interstate Commerce Commission, Washington; Labor Commission, Washington; Laboratory Company Publishers, Norway Lake, Me.; Lick Observatory; Light House Service, Washington; Lowell Old Historical Residents' Association; Massachusetts Society for Promoting Agriculture; Massachusetts State Board of Health; Massachusetts State Library; Massachusetts Historical Society; Massachusetts State Board of Charities; Massachusetts Bureau of Statistics; Melbourne University, Australia; Michigan Railroad Commission; Missionary Herald; Missouri Botanical Garden, St. Louis; Nautical Almanac; New England Historic Genealogical Society; New Jersey State Library; New York Bar Library Association; New York Board of Trade; Nicaragua Inter-Oceanic Canal; Ordnance Department, Washington; Oxford University; Peabody Institute, Baltimore; Providence National Bank; City of Providence; Rhode Island Railroad Commission; Rhode Island Legislature; Rhode Island Board of Education; Rhode Island Board of Soldiers' Relief; Rutgers College, Beta Theta Phi Fraternity; Society of Arts, London; Society of the Sons of the Revolution, New York; *Soc. Royale de Norwége des Sciences;* Smithsonian Institution, Washington; Unitarian Review; United States Board of Geographic Names; United States Coast Survey; United States Naval Observatory; *Université Royale de Norwége;* University Club, New York; Washington—Department of the Interior, Treasury Department, Departments of State, War, Navy, Agriculture, Bureau of Navigation, Commissioner of Labor, Commission of Fish and Fisheries, Bureau of Education,

Bureau of American Republics, Chief of Engineers, Naval Observatory, National Museum, Smithsonian Institution, Surgeon-General's Office, Life-Saving Service, etc.; Western Recorder; Wisconsin University; Wool Manufacturers' Bulletin, Boston; Yale University Library; Young Churchman Company, Miiwaukee.

OTHER LIBRARY FACILITIES

Besides the University Library, the five collections of books named below are practically at the service of students in Brown University, comprising in all, including the University Library, two hundred and twenty-five thousand volumes, exclusive of pamphlets and manuscripts. These six collections combined, afford library privileges such as can be found at but very few seats of learning in this country. The first three libraries named are entirely free, and the other two are available without difficulty.

The Providence Public Library

All students of Brown University are allowed, upon the same conditions as other residents of the city, to make use of the excellent and well administered Public Library of Providence, containing above 58,000 volumes. It is situated at 73 Snow Street, and is open evenings, Sunday evenings included. It is also open Sunday afternoons. The Librarian, a graduate of Brown University, prepares lists of references for guidance in the regular essay work of the University. He is glad to be consulted also with respect to books on other departments of University teaching. On the history of Slavery and of the Civil War this is one of the richest literary collections in America.

The State Law Library

This collection of about 16,000 volumes may be consulted in the Providence County Court House, corner of

Benefit and College streets, but a few steps from the University. It is accessible to all students, and, for certain lines of University study, is invaluable.

The Library of the Rhode Island Historical Society

The Cabinet of the Rhode Island Historical Society, which has recently undergone extensive enlargement, is on Waterman Street, next door to the University Library Building. The Library of the Society comprises about 15,000 bound volumes, and between 30,000 and 40,000 valuable unbound volumes and pamphlets. It is accessible, free of charge, to all students, as to all residents of Rhode Island, and offers especial facilities for thorough research, not only in all subjects relating to the history of Rhode Island, but also in many departments of general American history.

The Library of the Providence Athenaeum

This collection of 53,000 well-chosen volumes, increasing at the rate of over 1,000 yearly, is also situated very near the University. Connected with it is an admirable reading-room, containing a large and choice assortment of papers and periodicals, American and foreign. This Library is the property of a private corporation ; but many students, as well as nearly all the members of the Faculty, hold shares, while, for purposes of special research, the volumes of the Library are freely placed at the disposal of suitable persons, not owners of stock.

The Library of the Rhode Island Medical Association

This is a collection of several thousand books and pamphlets upon medicine, surgery, and kindred branches.

Many of them relate to Physiology, Physiological Psychology, Hygiene, and other subjects pursued in the University. Special arrangements are easily made whereby any student can, without cost, enjoy the privileges here offered. This Library is in the Arnold Block, 54 North Main Street. It is open every afternoon from 2 to 6 o'clock.

THE SEARS READING ROOM

The Sears Reading Room Association of students occupies a large, commodious, and well-lighted room, conveniently situated on the first floor of University Hall, fitted up especially for this use, and supplied with all the most important newspapers, daily and weekly, as well as with a variety of the more popular periodicals. The learned and scientific reviews may be consulted in the University Library.

THE BROWN UNIVERSITY LECTURE ASSOCIATION

An organization of graduates and friends of the University, known as the Brown University Lecture Association, sustains each winter several courses of free public lectures upon topics in various departments. During the winter of 1891–1892, the following courses were given: Professor A. D. F. Hamlin, of the Columbia College

School of Mines, four illustrated lectures on "Styles in Architecture: their Development since the Christian Era"; Mr. Walter Damrosch, three lectures, with the piano, interpreting the works performed at his concerts in Providence; Professor Sears, two lectures, upon "The Oratory of the Greek and Latin Fathers"; Professor Josiah Royce, of Harvard University, six lectures upon "Illustrations of the Spirit of Modern Philosophy"; Professor Charles Sprague Smith, four lectures on "Early Norse Poetry and the Icelandic Sages"; the Rev. Dr. Wm. Chauncy Langdon, a lecture on "The Present Conditions and Probable Future of the Papacy"; Mr. Austin Cary, a lecture on "The Bowdoin College Expedition to Labrador in 1891"; Dr. Albert Shaw, four lectures on "Modern Municipalities"; Professor Henry B. Gardner, two lectures on "Problems of State and Local Taxation"; Professor C. T. Winchester, of Wesleyan University, four lectures on "Four Victorian Writers"; Mr. H. E. Krehbiel, a lecture on "The Precursors of the Piano-forte," illustrated by means of the antique instruments possessed by Mr. M. Steinert, through whose kindness the lecture was given. Subsequently, at the instance of other friends of the University, Dr. E. G. Robinson, ex-president of the University, gave five lectures on "Modern Thought and Religion."

During the season of 1892–1893, beginning November 30th, the following lectures and courses are offered to the students and the public:

Professor Winchester, of Wesleyan University, will give six lectures on "Six Plays of Shakespeare." Rev. Lysander Dickerman, of the Class of 1851, will give four illustrated lectures on Ancient Egypt. Professor Poland will give a lecture on the excavations made by the American School at Athens during the past year, during which he had charge of the school, and another on recent theo-

ries touching the Greek theatre. Mr. Horace E. Scudder, editor of the Atlantic Monthly, will give a lecture on "The American Man of Letters." Six Lectures on "Evolution in the Animal Kingdom," will be given by Professor Edward S. Morse, Director of the Peabody Institute at Salem. A lecture may be expected from the President of the University on "The Present Philosophic Status of Theistic Belief." Professor Langdon will give four lectures on "The Grotesque Element in Romanticism," with especial reference to the Inferno, Don Quixote, and Hugo's Notre Dame de Paris. Professor William T. Sedgwick, of the Massachusetts Institute of Technology, will give one or two lectures on "Sewage and its Disposal."

These lectures are in all cases free to the public, who are most cordially invited to attend. Persons desiring further information, or wishing to become sustaining members of the Association, are requested to communicate with the Secretary, Professor J. Franklin Jameson, 1 College Court.

SPECIAL LECTURES ON LAW

During the college year 1891–92, four lectures were delivered, two by J. M. Gould, Ph. D., on "Equity," and two by G. F. Tucker, Ph. D., on "The Monroe Doctrine."

It is expected that a similar course will be offered each year.

ART COLLECTIONS

PORTRAITS

Through the liberality of its friends the University has been presented with a large number of portraits. Most of them are hung in Sayles Hall, the rest in apartments of the other University buildings. The collection includes portraits of benefactors of the University, of some of its former officers, and of other men distinguished in the earlier or the more recent history of Rhode Island. It has been greatly enriched in late years by portraits presented through a committee appointed by the Alumni, "for the purpose of procuring and placing within the walls of Brown University, the portraits of her Presidents, Professors, distinguished graduates, and benefactors."

THE MUSEUM OF CLASSICAL ARCHAEOLOGY

IN MANNING HALL

By the further generosity of its friends the University has been enabled to institute a Museum of Classical Archaeology. A collection of plaster casts from works of classical art has been placed in Room No. 1, Manning Hall, which has been appropriately arranged and decorated for this purpose. They are of rare excellence, and of great value for illustrating ancient history, biography, and art.

The larger number of the casts already in the museum were given by Henry Kirke Porter, Esq., of Pittsburg, Pa., a member of the class of 1860, and were purchased for Mr. Porter by the late Professor Lincoln in 1887–1888. Mr. Porter has just added to the collection an excellent cast

of the Belvedere Torso. Another donor is the class of 1868, which in 1888 paid into the University treasury $1,000, the income of which will be spent in purchasing casts or other apparatus to be used in the work of instruction in Classical Archaeology. The late Hon. Charles Smith Bradley, LL. D., of the class of 1838, gave to the University a reduced copy in marble of the portrait statue of Aeschines, which is in this museum. To Edward I. Nickerson, Esq., of Providence, the museum is indebted for casts from the frieze of the Parthenon. A considerable addition to the collection will be made soon, in casts to be purchased with moneys already given by friends of the University.

THE MUSEUMS OF ZOÖLOGY AND ANTHROPOLOGY

In Rhode Island Hall

The Jenks Museum of Zoölogy

This Museum is arranged according to the more modern methods of classification, beginning with the lower invertebrates and ending with the mammals. It includes materials not only for general work but for special investigation. There have been placed on exhibition in the gallery, separate from the synoptic collections below, local collections representing the fauna of Rhode Island. Students giving special attention to Zoölogy are allowed to take from the cases such specimens as they may need, the aim always being to make the Museum not an exhibition room only but a place for work.

The Museum of Anthropology

Properly to house and exhibit the rapidly growing stores of anthropological matter, a special hall contiguous to the Museum of Zoölogy has been fitted up during the last year, permitting a synoptic arrangement of the contents and otherwise greatly facilitating study. This work has been done under the superintendence and entirely at the cost of Professor John Whipple Potter Jenks, A. M., who has served so long and faithfully as the Curator of the original Museum. This new Museum contains a great number of rare implements from foreign countries, as well as many once the property of the aboriginal races in our own land. Pre-historic Anthropology is well illustrated by implements of stone, bone, and bronze, with casts, models, and photographs, either collected or purchased in 1889 by Professor A. S. Packard, Ph. D. They represent France, Italy, England, and Switzerland, materials from the Lake Dwellings of Switzerland being especially numerous.

RELIGIOUS CULTURE

This is deemed to be of first importance. The public duties of every day begin with religious exercises in the University Chapel. All students are also expected to attend divine worship on Sunday, each one reporting to the President at the beginning of the year what church he will attend. The Young Men's Christian Association has meetings on Wednesday evenings during term time, to which all students are welcome. The Bishop Seabury Association holds a service every Friday afternoon.

In addition, each class has its own meeting for prayer and conference on Friday afternoons, and a voluntary Bible Class for students, conducted by the President, meets on Sunday mornings at half-past nine.

PHYSICAL CULTURE

During the college year 1891–92, the Lyman Gymnasium, fully completed and equipped, was provided with a main hall containing all the most useful gymnastic appliances, including a running track in the gallery. Adjoining are the locker rooms, with capacity for a much larger number of students than are now enrolled. On the same floor is also the office of the instructor and a room for anthropometry. On the floor above are two large, well-lighted rooms, one of which is designed for a music room, the other for a billiard room. In the basement are two bowling alleys, eight rowing-machines, the base-ball cage, a sparring-room, and a room to be used by the base-ball team. A space has been left for a swimming-tank.

Every student is examined physically, measured, and provided with a chart showing his development and condition. Special exercise based on this examination is prescribed for each, in addition to regular class work. Except during the early fall and late spring, there is in the Gymnasium a regular class drill for each class one half-hour daily four days each week. In this drill the Freshmen are instructed in the use of Indian clubs, the Sophomores in the use of dumb-bells, the Juniors to use the "single stick," and the Seniors to fence. The remainder of the four hours per

week required by the Corporation is devoted to special exercises on various sorts of apparatus. No student will be excused from gymnasium work except for physical cause Every effort is made to encourage interest in out-door sports, for it is believed that exercise in the open air is of primary importance. The instructor devotes a considerable part of his time, when the season is suitable, to directing out-door athletics of all kinds.

EXAMINATIONS, STANDING, AND HONORS

TERM EXAMINATIONS

Examinations of all the classes are held at the close of each term, or at the completion of definite portions of work in the several studies. A student cannot be admitted to the examination in any study unless his term standing in that study is at least fifty per cent. of the maximum. If excluded for this reason he is considered delinquent in the study. Also if a student is examined in a given study and fails to receive a mark of at least fifty per cent., he is considered delinquent in that study, and must prepare himself for a subsequent examination.

Any student who, either from failure at examination or because his term standing is below fifty per cent., is delinquent in three or more studies at the close of the term, is not allowed to continue the studies of his class.

A student delinquent in any study of the First or the Second Term must be specially examined before the middle of the term next succeeding that for which he is deficient, at a time appointed by the instructor. Students delin-

quent at the close of an academic year must be examined on the Monday or Tuesday immediately preceding the beginning of the next academic year (for 1893 on September 18 and 19). The schedule for these delinquent examinations will be posted in the Registrar's office on Monday morning. Candidates for a degree delinquent in the studies of a given year, unless, for worthy cause, they are specially excused by the Faculty, cannot begin the studies of the next year until they have passed successfully the examinations required.

A student delinquent in any study who fails to obtain fifty per cent. on special examination, forfeits his connection with his class, and, before he is recommended for a degree, must study the subject again, either with a succeeding class or under an instructor appointed by the Faculty.

ATTENDANCE ON COLLEGE EXERCISES

Each student is expected to attend every exercise in the several studies to which he is assigned. When a student is unavoidably prevented from attending his classes, he should report immediately to the officer having charge of excuses.

An unexcused tardiness is regarded as an absence. If a student is absent and unexcused he is subject to college discipline. The term-reports sent to the parent or guardian of each student contain the record of all absences.

REPORTS OF PROFICIENCY

A careful record is kept of the proficiency of every student of the college in his several studies. At the close of a term the standing of each student is determined by so combining his term-standing with the result of the ex-

amination in each study that the term-standing shall count for three-fourths of the final result. A report is sent to the parent or guardian of every student, indicating his standing in each of his studies for the term, and announcing his deficiency in any study or studies if such deficiency exists.

APPOINTMENTS FOR COMMENCEMENT

These are made as follows: Every member of the Senior Class is allowed to present for Commencement an oration or a thesis. From the number of those presented the Professor of Rhetoric, on or before the second Wednesday in April, selects at least one-half of both the orations and the theses, and submits them to a committee consisting of the President of the University, the Professor of Rhetoric, and a third member elected each year by the Faculty. This committee select from the orations laid before them such, not exceeding ten in number, as in their judgment have sufficient merit to represent the University with credit at Commencement, regard being had to the oratorical ability of the several writers as determined by their attainments in elocution. The committee select also from the theses such as they deem deserving of particular mention, with reference to the special proficiency shown by the writers in the departments of study which they treat, and to excellence in composition. The number of theses accepted cannot exceed that of the accepted orations. The names of the writers of the theses accepted are printed in the Commencement programme.

SPECIAL HONORS

Opportunity to study for honors is open to members of all classes, but only in connection with courses determined upon by the Faculty. Early in each academic year the

Faculty prepares a list of such courses, a copy of which is kept by the Registrar for consultation by the students.

The extra work required in order to secure honors occupies the equivalent of four hours a week during the year, and this whether the course in connection with which the study for honors is carried on extends through two or three terms.

Candidacy for honors is subject to the following conditions: 1 No student is allowed to become a candidate who is delinquent in any study or whose average mark in all the studies for the year preceding his application for candidacy has been less than 8.5, and no student is allowed to continue a candidate if at the end of any term his mark in the study in connection with which the honor course is pursued has fallen below 9, or his average mark in all his studies for that term, below 8.5. 2 No student can become a candidate who is taking two or more extra studies. No student who is taking a single extra study can be a candidate for more than one honor. No student can be a candidate for more than two honors at the same time. *Provided, however*, that any student whose average standing in all his studies for the year preceding his application for enrolment as a candidate has been 9.5 or over may become a candidate for three honors at the same time; but the candidacy for one of the three honors ceases if during any term the candidate's average standing in all his studies for that term falls below 9.5. 3 At the end of any academic year permission may be granted a student to study for one honor during the summer vacation; but this permission can not be granted to students who are already candidates for one or more honors, unless the work for such honor or honors be completed by Commencement day. 4 By leave of the Faculty, a student may at any time withdraw from candidacy for honors.

Application for enrolment as a candidate for honors must be made to the Registrar, on a blank furnished by him for that purpose. Before the application will be received, the applicant must obtain the approval of the instructor in charge of the course specified, attested by his signature on the application blank. In the case of courses beginning the first term, application must be made on or before October 20th; in the case of courses beginning the second term, on or before January 20th; and in the case of courses beginning the third term, on or before May 1st.

When a class graduates, the names of those of its members who have obtained honors during their college course, together with the years and subjects in which such honors have been awarded, are printed on the Commencement programme.

GRADUATE DEGREES

I, MASTER OF ARTS

This degree is conferred under the following conditions: 1 The candidate, already a Bachelor of Arts or of Philosophy, must have completed a thorough course, approved by the Faculty and the Board of Fellows, of liberal graduate study, sufficient in amount to constitute a fifth year of college work, and have passed satisfactory examinations thereupon. 2 By continuous residence at college, candidates fulfilling the above conditions, may receive the degree in one year from graduation; but in cases of partial or entire non-residence, the degree will not be conferred under two years from graduation. 3 Every candidate for the degree is charged the sum of five dollars at his registration

as such candidate, and the same fees while in residence as are paid by undergraduates. When the degree is conferred, resident candidates pay the additional sum of ten dollars, non-residents the sum of twenty dollars. See Index, under "Expenses."

II, DOCTOR OF PHILOSOPHY

This degree is conferred under the following conditions: The candidate must be a Bachelor of Arts or of Philosophy. He must have resided at the University at least two years after graduation, pursuing a systematic course of study approved by the Faculty and the Board of Fellows, and sustaining satisfactory examinations on the same, concluding his course with a thesis giving evidence of high scholarship and of special excellence in the studies pursued. To receive this degree, one must further possess a good knowledge of Latin, French, and German, unless for special reasons excused from one or more of these languages.

Every candidate for the degree will be charged the sum of five dollars on announcing his candidacy, unless he has already paid this fee as candidate for the degree of Master of Arts. The fee for instruction will be the same as to undergraduates; that for the degree, ten dollars. See Index, under "Expenses."

Any person wishing to become a candidate for either of the above degrees should communicate with the Chairman of the Committee on Advanced Degrees [see page 18], naming the departments in which he desires to study. Two courses at least are usually required, a Major and a Minor. The communication is laid before the head of the department, who, in correspondence with the applicant, arranges the work in detail.

A student desiring to receive, at any given commencement, the degree of Master of Arts after one year's residence, must announce his wish to the Chairman of the Committee, in writing, on or before the 15th of October of the year preceding that Commencement, and must name in his application the department or departments of study in which he desires to be examined.

Every student, also, who desires to receive, at any given Commencement, the degree of Master of Arts after two or more years of non-resident study, must make similar announcement on or before the 15th of October of the second year preceding that Commencement.

A student desiring to receive, at any given Commencement, the degree of Doctor of Philosophy must make similar announcement on or before the 15th of October of the second year preceding that Commencement. A year of work for the degree of Master of Arts unless performed in residence, cannot be counted as a year of work for the higher degree; and is not necessarily so counted even when performed in residence.

The examinations of all candidates desiring to receive the degree of Master of Arts or of Doctor of Philosophy at the Commencement of any given year, must be completed before the first of June in that year. The dissertations of candidates for the degree of Doctor of Philosophy must be presented to the Faculty in type-writer copy or in print, before the first of May of that year; and the approval of such dissertation by the Faculty is essential to the attainment of the degree.

EXPENSES

Regular University Dues

The yearly dues to the University treasury are as follows :

	LOWEST	HIGHEST
Tuition, ...	$110 00	$110 00
Rent, single room [see page 160], . . .	15 00	87 00
Rent, suite [see page 160], ...	90 00	175 00
General incidentals for all students, . .	33 00	33 00
Extra incidentals for residents in College, . .	30 00	44 00

The general incidental expenses are for the printing of programmes, examination papers, and the like, the use of the University Library and Gymnasium, heat for these and also for the halls and recitation rooms, and the hire of servants to care for the same. The extra incidental expenses are for heat and servants' hire in the dormitories. The charge for incidentals in both kinds is fixed as nearly as possible at the actual amount of these expenses on an average of several years.

Each room or suite in the dormitories has its gas meter, and occupants are charged for the actual amount of gas which they consume.

Every undergraduate candidate for a degree pays, upon admission to the University, a matriculation fee of $5.00.

Every member of the Senior Class pays upon graduation a fee of $8.00 for his diploma and other extra expenses connected with graduation.

Special University Dues

1, *In Chemistry*

Candidates for a University degree who take Course 1, 2, or 3 in Chemistry are charged as follows : for Course 1,

$1.00; for Course 2, $2.00; for Course 3, $3.00. They also have a special charge for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $2.00 per term.

Special students who take no University studies except Courses 1, 2, 3 in Chemistry, pay for these $10.00 per term. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $2.00 per term.

Students who are candidates for a University degree and take advanced courses in Analytical Chemistry are charged per term, in addition to the Regular University Dues, the sum of $10.00 for a three-hour course in the Laboratory, and $20.00 for a six-hour course in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $3.00 per term.

Special students who take no University studies except advanced courses in Analytical Chemistry are charged varying sums according to the nature of the courses taken. In an individual case, the charge is at the rate of $4.00 per term for one hour per week of actual attendance in the Laboratory. In addition, they are charged for their actual individual breakage of chemical apparatus. This charge does not ordinarily exceed $5.00 per term.

Special students engaging places in the Laboratory must each pay for a full term. No deductions are made on account of absence.

2, *In Physics*

Candidates for a degree who study in the Physical Laboratory pay, in addition to the Regular University Dues, a fee of $5.00 per term.

Candidates for a degree who do shop-work pay, in addi-

tion to the Regular University Dues, a fee of $10.00 per term.

Special students who take no studies except in the Workshop pay at the rate of $4.00 per term for one hour per week of actual attendance in the shop.

3, *In Botany*

Students who take Courses 1, 2, 3 in Botany pay, in addition to the Regular University Dues, a fee of $1.00 per term.

Students taking Courses 4, 5, 6 pay, in addition to the Regular Dues, a fee of $2.00 per term.

4, *In Other Studies*

Special students in the University, except as just specified under Chemistry, Physics, and Botany, as a rule pay full tuition and incidentals, but proportionally less if admitted to courses of less than fifteen hours of class attendance a week. If occupying rooms they of course pay the same rent as candidates for a degree.

5, *For Women's Examinations*

For each full set of examinations, viz., entrance examinations or examinations on any full term's work, each candidate pays $10.00. For examinations upon work requiring less than fifteen hours of class-room attendance a week, the fee is 75 cents per weekly hour's work. Thus, the examination upon a course which had required three hours in class-room weekly would cost $2.25; one upon a course of six hours, $4.50, etc.

6, *For Graduate Students*

Graduate students in residence at the University, whether candidates for degrees or not, pay the same regu-

lar and special University dues as undergraduates. [See above].

Each candidate for the degree of Master of Arts or for that of Doctor of Philosophy, at registration as such candidate, pays, in addition to the regular and to all other special University dues, the sum of $5.00.

A candidate for the degree of Master of Arts who, without remitting his studies, becomes a candidate for the degree of Doctor of Philosophy, is charged nothing for the new registration.

Each candidate who is recommended for the degree of Master of Arts after non-resident study pays, before receiving the degree, the additional sum of $20.00.

Each candidate recommended for either of these degrees on the basis of study in residence pays, before receiving the degree, the sum of $10.00.

General Expenses

The total expenses of students per year will vary, of course, according to their habits, tastes, and means, some students expending more than double, even more than treble, the amounts of others.

Subjoined are figures denoting the actual yearly expenses, including dues to the University, of several recent students, selected at random. In the case of one of these $250 paid for everything but board; in that of another $185 did the same. Two gentlemen kept their total expenditure, including board and all else save clothing, down to the low sum of $265 apiece. Two others needed for this $425, each, one year; $435 and $450 the next. Another required $412.87, another $475. Still another spent $510 in his Freshman year, $466 in his Sophomore year, both sums, however, including unusual amounts for travelling. So far as ascertained, the largest outlay for college expen-

ses in recent years is reported by a member of the Class of 1890, whose Freshman year cost him $890, his Sophomore year $730, his Junior year $725.

Board is not furnished at the University; but a list, kept by the Steward, of eligible families in the city where board can be obtained, is always accessible to students.

The usual cost of board is at present from $3.00 to $5.00 per week. A majority of the students do not pay over $3.50, and good board can be obtained for $3.00. Board with furnished rooms, in private families, may be had at from $5.00 to $10.00 per week.

Students needing to increase their incomes through their own exertions find in the city numerous opportunities for doing so, by giving private instruction, teaching in evening schools, and other occupations not inconsistent with their College duties.

Term bills are due, and must be paid, or their payment secured, on their presentation at the beginning of each term.

PRICES OF ROOMS AND SUITES

There are in the dormitories 99 single rooms and 23 suites: 17 of the suites having 3 rooms each, 2 sleeping rooms and a study, and 6 of them 2 rooms each. All the dormitories are supplied with steam heat, students paying therefor according to the size and number of their rooms. The highest price [per suite] is $20, the lowest [single rooms] $10. The charge for service is $15 for each single room, for suites $18 to $24, according to the size and number of the rooms.

The following conspectus gives the rent and location of each room in the University:

Hope College

No.	Division	Floor	Windows Face	Bedrooms	Price
1.	South..	1	E. & S.	There are no separate bedrooms, but Nos. 1 and 2, 5 and 6, 9 and 10, 35 and 36, 39 and 40, 43 and 44, can be used either as suites or as single rooms.	$75
2.	" ..	"	W. & S.		81
3.	" ..	"	W.		75
4.	" ..	"	E.		72
5.	" ..	2	E. & S.		75
6.	" ..	"	W. & S.		81
7.	" ..	"	W.		75
8.	" ..	"	E.		72
9.	" ..	3	E. & S.		66
10.	" ..	"	W. & S.		72
11.	" ..	"	W.		66
12.	" ..	"	E.		60
13.	" ..	4	E. & S.		60
14.	" ..	"	W. & S.		66
15.	" ..	"	W.		60
16.	" ..	"	E.		57
17.	Middle.	1	E.		72
18.	" ..	"	W.		75
19.	" ..	"	W.		75
20.	" ..	"	E.		72
21.	" ..	2	E.		72
22.	" ..	"	W.		75
23.	" ..	"	W.		75
24.	" ..	"	E.		72
25.	" ..	3	E.		60
26.	" ..	"	W.		66
27.	" ..	"	W.		66
28.	" ..	"	E.		60
29.	" ..	4	E.		57
30.	" ..	"	W.		60
31.	" ..	"	W.		60
32.	" ..	"	E.		57
33.	North..	1	E.		72
34.	" ..	"	W.		75
35.	" ..	"	W.		87
36.	" ..	"	E.		87
37.	" ..	2	E.		72
38.	" ..	"	W.		75
39.	" ..	"	E. & N.		87
40.	" ..	"	E. & N.		87
41.	" ..	3	W.		60
42.	" ..	"	W.		66
43	" ..	"	W. N.		75
44.	" ..	"	E. N.		75
45.	" ..	4	E.		57
46.	" ..	"	W.		60
47.	" ..	"	W. & N.		66
48.	" ..	"	E. & N.		66

University Hall

No.	Division	Floor	Windows Face	Bedrooms	Price
10.	South..	2	S. & W.	2	$175
12.	"	"	W.	None.	70
13.	"	"	W.	"	70
16.	"	"	E.	"	55
17.	"	"	E.	"	60
18.	"	"	E. & S.	"	75
19.	"	3	S. & W.	2 single.	160
21.	"	"	W.	None.	60
22.	"	"	W.	"	60
25.	"	"	E.	"	55
26.	"	"	E.	"	55
27.	"	"	E. & S.	"	75
28.	"	4	S. & W.	2	140
30.	"	"	W.	None.	55
31.	"	"	W.	"	55
32.	"	"	E.	"	50
33.	"	"	E.	"	50
34.	"	"	E. & S.	"	75
36.	North..	1	W.	"	75
40.	"	2	W.	"	70
41.	"	"	W.	"	70
43.	"	"	W. & N.	2	165
44.	"	"	E. & N.	None.	75
45.	"	"	E.	"	60
46.	"	"	E.	"	55
47.	"	3	W.	"	60
48.	"	"	W.	"	60
50.	"	"	W. & N.	2	155
51.	"	"	E. & N.	None.	70
52.	"	"	E.	"	55
53.	"	"	E.	"	55
54.	"	4	W.	"	55
55.	"	"	W.	"	55
57.	"	"	W. & N.	2	130
58.	"	"	E. & N.	None.	70
59.	"	"	E.	"	50
60.	"	"	E.	"	50

Slater Hall						George Street House					
No.	Division	Floor	Windows Face	Bedrooms	Price	No.	Division	Floor	Windows Face	Bedrooms	Price
1.	South..	1	E. S. & W.	2	$175	1.	.....	1	E. S.	None.	$60
2.	" ..	"	E. & W.	1	125	2.	.....	"	S. W.	"	60
3.	" ..	2	E. S. & W.	2	175	3.	.....	"	W.	"	50
4.	" ..	"	E. & W.	2	160	4.	.....	"	E.	"	60
5.	" ..	3	E. S. & W.	2	165	5.	.....	"	W.	"	25
6.	" ..	"	E. & W.	2	150	6.	TRUNK ROOM.				
7.	" ..	4	E. S. & W.	1	100	7.	.....	2	E. S.	None.	65
8.	" ..	"	W.	None.	70	8.	.....	"	S. W.	"	65
9.	" ..	"	W.	"	45	9.	.....	"	E.	"	45
10.	North..	1	E. W.	2	155	10.	.....	"	W.	"	65
11.	" ..	"	E. W. & N.	2	155	11.	.....	"	E.	"	45
12.	" ..	2	E. W.	2	155	12.	.....	"	W. N.	"	50
13.	" ..	"	W.	None.	45	13.	.....	3	W.	"	15
14.	" ..	"	W. N. E.	2	160	14.	.....	"	W.	"	15
15.	" ..	3	W. E.	2	150	15.	.....	"	E.	"	25
16.	" ..	"	W.	None.	40	16.	.....	"	N.	"	20
17.	" ..	"	W. N. E.	2	155		21 Brown Street.				
18.	" ..	4	E.	None.	45						
19.	" ..	"	W.	"	70						
20.	" ..	"	W. N. E.	1	90	4.	.....	2	S. W.	One.	175
						5.	.....	"	E. S.	None.	75
						6.	.....	"	W. N.	"	65
						10.	.....	3	E. S.	"	55
						11.	.....	"	S. W.	"	65
						12.	.....	"	W. N.	"	55
						13.	.....	"	W. N.	"	55

Directory to the Dormitories

Slater Hall, South Division,	Rooms,	1 to 9.
Slater Hall, North Division,	"	10 to 20.
University Hall, South Division,	"	1 to 34.
University Hall, North Division,	"	35 to 61.
Hope College, South Division,	"	1 to 16.
Hope College, Middle Division,	"	17 to 32.
Hope College, North Division,	"	33 to 48.
96 George Street,	"	1 to 16.
21 Brown Street,	"	4 to 13.

FELLOWSHIPS

The Fellowship of the Grand Army of the Republic

In 1891 the Grand Army of the Republic, Department of Rhode Island, donated to Brown University the sum of ten thousand dollars, to be forever known as the Grand Army of the Republic Fellowship Fund. Only the income of the fund can be used. This income goes to aid alumni of Brown University, of acknowledged excellence in scholarship and character, to pursue advanced liberal study; the aim being that the income for any year shall all go to the same person, except in case of his death, or his resignation or forfeiture of this Fellowship, when a successor may be appointed for the remainder of the year.

Holders of this Fellowship are appointed by the President of the University, subject to the approval of the Board of Fellows, but the descendants of Union Veterans of the Civil War of 1861–65 are always to be preferred when the other qualifications of candidates are equal. No considerations touching the political or religious preferences of candidates can ever enter into these appointments.

Appointments to this Fellowship are regularly made for one year, but incumbents of special diligence or ability may be re-appointed. The President is authorized to make for the reception and use of the income from this fund, such other conditions, not inconsistent with the above, as he may from time to time deem wise and proper.

Applications for the Fellowship must be in the hands of the President on or before May 15th each year.

This Fellowship for the year 1892–93 has been conferred on

Arthur Newton Leonard, A. B.

The Philadelphia Alumni Fellowship

This is another fund, to be ten thousand dollars, which the Philadelphia Alumni Association of Brown University will soon render available. Its general purpose is to assist graduate students of special ability in pursuing advanced studies at the University.

SCHOLARSHIPS

The University has about one hundred scholarships. Sixty-four of them are of one thousand dollars each. The income of these is given, under the direction of a committee appointed by the Corporation, to meritorious students who may need pecuniary assistance; *but a scholarship is forfeited if the candidate incurs college censure, or fails to secure at least seventy-five per cent. of the maximum marking.* The one-thousand-dollar scholarships are as follows, each, unless otherwise indicated, bearing the name of its founder:

The eleven Nicholas Brown Scholarships.
The four University Scholarships.
The President's (Sears) Scholarship.
The Six Alva Woods Scholarships.
The James H. Duncan Scholarship.
The Isaac Davis Scholarship.
The Arnold Whipple Scholarship, founded by Mrs. Arnold Whipple.
The Ephraim Wheaton Scholarship, founded by James Wheaton.
The Joseph Brown Scholarship, founded by Mrs. E. B. Rogers.
The Gardner Colby Scholarship.
The Crocker Scholarship, founded by Robert H. and Thomas P. Ives, trustees.
The Clark Scholarship, also founded by the Messrs. Ives.
The Albert Day Scholarship.
The Henry P. Kent Scholarship.
The Romeo Elton Scholarship.
The Five Annie E. Waters Scholarships.
The L. Fairbrother Scholarship, founded by Mrs. L. Fairbrother.
The George Lawton Scholarship.
The John P. Crozer Scholarship, founded by Mrs. Margaret Bucknell.
The James Y. Smith Scholarship.
The two S. S. Bradford Scholarships.
The Frances R. Arnold Scholarship.

The Cornelia E. Green Scholarship.
The George K. and H. A. Pevear Scholarship.
The Joseph C. Hartshorn Scholarship I.
The Rogers High School Scholarship, founded by William Sanford Rogers.
The James Wheaton Scholarship.
The Charles Thurber Scholarship.
The Pardon Miller Scholarship, founded by Mrs. Ann E. Miller.
The Hezekiah S. Chase Scholarship.
The William Bucknell Scholarship.
The Austin Merrick Scholarship, founded by Mrs. Olive E. Merrick.
The Horatio N. Slater Scholarship.
The Earl P. Mason Scholarship.
The Newport Scholarship, founded by William Sanford Rogers.
The Alexis Caswell Scholarship.
The three (Henry) Jackson Scholarships.
The Mumford Scholarship, founded by Mrs. Louisa D. Mumford.
The Henry Clifford Knight Scholarship, founded by Miss Amelia S. Knight, in memory of her brother, a member of the class of 1875.
The Thurston Scholarship, founded by Hon. Benjamin F. Thurston.
The Rufus Babcock Scholarship, founded by Mrs. Caroline Vassar Babcock Jones, in memory of her father, Rev. Rufus Babcock, D. D., of the class of 1821.
The James Fletcher Blackinton Scholarship, founded by Mrs. Mary D. Blackinton, in honor of her husband, James Fletcher Blackinton, of the class of 1847.

Besides the above scholarships there are others the assignment of which is made subject to special provisions. These are as follows :

The Bartlett Scholarship, of four thousand dollars, founded by MRS. ELIZABETH SLATER BARTLETT, the income to be "devoted to the support of one or more students needing pecuniary aid, and giving promise, by studious aims and by character and scholarship, of rising to distinction and usefulness."

The Glover Scholarships, of five thousand dollars, founded by HENRY R. GLOVER, "in memory of his father, SAMUEL GLOVER, a graduate of the College of the Class of 1808, and of his brother, SAMUEL GLOVER, JR., of the Class of 1839." Assignment is made upon the basis of character and attainments.

The Scholarship of the Class of 1838, of thirty-eight hundred dollars, founded by members of THE CLASS OF 1838, and also assigned upon the basis of character and scholarship.

The Joseph Charles Hartshorn Scholarship II, of two thousand dollars, founded by the gentleman whose name it bears.

The George J. Sherman Scholarships I and II, of one thousand dollars each, founded by the gentleman whose name they bear.

The Scholarships of the Department of Agriculture and the Mechanic Arts. By resolution of the General Assembly of the STATE OF RHODE ISLAND, the national grant "for the benefit of Agriculture and the Mechanic Arts," was given to Brown University; and the fund of fifty thousand dollars which has accrued from this grant is, by agreement on the part of the University, devoted to the education of scholars, each at the rate of seventy-five dollars per annum, to the extent of the entire annual income. Appointments to these scholarships are made, on the nomination of the General Assembly, by the Governor and the Secretary of State, in conjunction with the President of the University.

AID FUND

This is a fund of several thousand dollars, the income of which is applied, either by loan or by gift, to the assistance of deserving young men of limited means.

PREMIUMS

I, FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums. These are derived from the income of a fund presented to the University by the Rev. Francis Wayland, D. D., while President. They are awarded to those members of the Freshman Class, candidates for the degree of Bachelor of Arts or of Bachelor of Philosophy, who are found upon special examination to have attained the highest excellence in the studies required for admission to College in Greek, Latin, and French. For the highest attainment in each of these several studies a first premium of twenty dollars is awarded; for the next highest, a second premium of ten dollars. An additional second premium in one of these studies is sometimes awarded to such competitor as the examiners consider most deserving.

The most recent award (1892) of these premiums was as follows:

GREEK

The First Premium to Henry Herbert Waterman, instructed by William T. Peck, A. M., in the Providence High School.

The Second Premium to Allen Buell Bicknell, instructed by William T. Peck, A. M., in the Providence High School.

LATIN

The First Premium to Edward Bailey Morse, instructed by William T. Peck, A. M., in the Providence High School.

The Second Premium to Allen Buell Bicknell, instructed by William T. Peck, A. M., in the Providence High School.

An additional Second Premium to Irving Henry Gamwell, prepared by the Holliston High School and by private study.

FRENCH

Two Equal First Premiums—One to HENRY HERBERT WATERMAN, the other to HENRY LAWRENCE SMITH, both instructed by William T. Peck, A. M., in the Providence High School.

MATHEMATICS

The Hartshorn Premiums. These are derived from the income of a fund of one thousand dollars, presented to the University by JOSEPH C. HARTSHORN, A. M., of the Class of 1841. The income furnishes *three Premiums.*

These are awarded to those members of the Freshman Class who are found, upon examination, to excel in the preparatory mathematical studies.

The last award (1892) of these Premiums was as follows:

The First Premium to JAMES ELLIS AMES, prepared in the Brockton Mass. High School.

The Second Premium to HENRY HERBERT WATERMAN, prepared in the Providence High School.

The Third Premium to EDWARD BAILEY MORSE, prepared in the Providence High School.

II, FOR EXCELLENCE IN COLLEGE STUDIES

ERRATUM

Page 166, foot, read as follows:

LATIN

The First Premium to HENRY HERBERT WATERMAN.
The Second Premium to EDWARD BAILEY MORSE.

Class. They may declaim pieces in either prose or verse,

PREMIUMS

I, FOR EXCELLENCE IN PREPARATORY STUDIES

The President's Premiums. These are derived from the income of a fund presented to the University by the Rev. Francis Wayland, D. D., while President. They are awarded to those members of the Freshman Class, candidates for the degree of Bachelor of Arts or of Bachelor of Philosophy, who are found upon special examination to have attained the highest excellence in the studies required for admission to College in Greek, Latin, and French. For the highest attainment in each of these several studies a first premium of twenty dollars is awarded; for the next highest, a second premium of ten dollars. An additional second premium in one of these studies is sometimes awarded to such competitor as the examiners consider most deserving.

The [illegible] prepared by the Holliston High School and by private study.

FRENCH

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The last award (1892) of these Premiums was as follows:

The First Premium to JAMES ELLIS AMES, prepared in the Brockton Mass. High School.

The Second Premium to HENRY HERBERT WATERMAN, prepared in the Providence High School.

The Third Premium to EDWARD BAILEY MORSE, prepared in the Providence High School.

II, FOR EXCELLENCE IN COLLEGE STUDIES

The Carpenter Prizes for Elocution. These are: a First Prize of *sixty* dollars; a Second Prize of *thirty-six* dollars; a Third Prize of *twenty-four* dollars.

They are derived from the income of a fund established by THOMAS CARPENTER, and are awarded annually to the three members of the Sophomore Class to whom are assigned, respectively, the first, the second, and the third rank of excellence in elocution. The assignment is made by a committee appointed for the purpose, and after trial at a public exhibition given on the Monday evening before Commencement.

The competitors must be members of the Sophomore Class. They may declaim pieces in either prose or verse,

selected from English authors. These selections must be approved by the Instructor in Elocution. Competitors are to enter their names with this Instructor not later than the tenth day before the exhibition.

The Committee of Award consists of five members, and is formed as follows: the Professor or the Instructor in Elocution, who is the chairman; two persons elected by the Corporation; also two elected by the Sophomore Class during the first term of the year; it being understood that no one who is or has been a member of the class is eligible.

The Committee for 1892 awarded the prizes as follows:

The First, to EDGAR SMILEY NASH.

The Second, to RUSSELL HALL BIRGE.

The Third, to ALBERT JOSEPH POPE.

The Hicks Prizes for Excellence in Debate. These are two, derived from the income of a fund presented to the University by RATCLIFFE HICKS, of the class of 1864. They are annually awarded to the two members of the Junior Class who, in the judgment of a carefully selected committee, display the greatest ability in debate. The contest is held on the evening before Class Day.

For the year 1892 the prizes were awarded in equal parts to

LESLIE ELIAS LEARNED

and

ARTHUR JOSEPH LLEWELLYN.

The Carpenter Premiums. These are two, of sixty dollars each, derived from the income of a fund established by THOMAS CARPENTER and LYDIA CARPENTER.

These premiums are assigned at the *end of the Senior year*, to the two members of the Senior Class who, "already on scholarships, shall, in the judgment of the Faculty, unite in the highest degree the three most important elements of success in life: ability, character, and attainment."

For the year 1891–92 the Carpenter Premiums were awarded to

WARREN GARDNER BULLARD

and

WILLIAM HOLDEN EDDY.

The Howell Premium. This fund, amounting to one thousand dollars, was presented to the University by the late GAMALIEL LYMAN DWIGHT. The income is given, at the *close of the first half of the Senior year* to the student who, "having a good record of deportment, has the highest rank in Mathematics and Natural Philosophy." To be considered a candidate for this Premium, a student must select at least one of the elective studies in Pure or Applied Mathematics offered each term, from the Freshman year to the end of the second term in the Senior year.

For the year 1891–92 this premium was awarded to

WARREN GARDNER BULLARD.

The Dunn Premium. A fund, amounting to somewhat over eight hundred dollars, was presented to the University by pupils and friends of the late PROFESSOR ROBINSON POTTER DUNN, D. D., the income to be given, at the *end of the Junior year*, to the student having the highest standing in rhetorical studies.

For the year 1891–92 this premium was awarded to

LESLIE ELIAS LEARNED.

The Class of 1873 Prize. A fund amounting to five hundred dollars was presented to the University by THE CLASS of 1873, on the condition that its income should be used as a prize for an Essay. The prize is annually offered for competition to members of the Senior Class.

On Commencement Day, June 22, 1892, the President announced the award of this prize to

HENRY KALLOCH ROWE.

The Foster Premium. This premium is derived from the income of a fund of three thousand dollars bequeathed to the University by the late HON. LA FAYETTE SABINE FOSTER, LL. D., of the Class of 1828.

In accordance with the terms of the donor's will, the income of this fund is to be "annually paid to that scholar of the institution who passes the best examination in the Greek language, the examination to be made in the first, third, and twenty-fourth books of Homer's Iliad, or in the Oration on the Crown by Demosthenes."

The next examination, open to the members of the Senior Class, will be held early in May, 1893. Candidates will be examined in the Oration on the Crown.

On Commencement Day, June 22, 1892, the President announced the award of this prize in equal parts to

WILLIAM HOLDEN EDDY

and

JAMES ALDRICH PIRCE.

SPECIAL HONORS, CLASS OF 1892

FOR THE SOPHOMORE YEAR

Albert Leslie Barbour,	Greek, German.
Warren Gardner Bullard,	Greek, Mathematics.
William Richardson Dorman,	German.
Royal Henry Gladding,	Rhetoric, German.
Albert Edward Hylan,	German.
Arthur Newton Leonard,	German.
Augustus Phineas Reccord,	Rhetoric, Elocution.
Henry Kalloch Rowe,	Latin.

FOR THE JUNIOR YEAR

Albert Leslie Barbour,	Greek, German.
Marshall Stewart Brown,	History.
Warren Gardner Bullard,	Greek, Calculus.
William Richardson Dorman,	German.
Royal Henry Gladding,	German.
Albert Edward Hylan,	German.
Arthur Newton Leonard,	German.
Augustus Phineas Reccord,	English Literature.
Henry Kalloch Rowe,	History, Latin.
James Edward Smith,	German.
Henry Morgan Stone,	English Literature.

FOR THE SENIOR YEAR

Marshall Stewart Brown,	History.
Warren Gardner Bullard,	Mathematics.
William Holden Eddy,	German.
Arthur Newton Leonard,	German.
Henry Kalloch Rowe,	History.

DEGREES CONFERRED IN 1892

DEGREES IN COURSE

THE DEGREE OF BACHELOR OF ARTS

ON

GEORGE FREDERICK ANDREWS,
NEIL ANDREWS JR.,
ALBERT LESLIE BARBOUR,
HORATIO ELIPHALET BELLOWS,
JOHN FREDERICK BLACKLOCK,
BERTRAM BLAISDELL,
EVERETT ANTHONY BOWEN,
HORATIO NELSON SLATER BRADFORD,
JAMES EDWARD BRENNAN,
THEODORE SHOTWELL BROWN,
EDWARD IBARRA BROWNELL,
HERBERT CARPENTER BROWNELL,
WARREN GARDNER BULLARD,
LEONARD HERBERT CAMPBELL,
JAMES CROSS COLLINS JR.,
WILLIAM RICHARDSON DORMAN,
FREDERICK ALVIN DURHAM,
FRANK TOURTELLOT EASTON,
WILLIAM HOLDEN EDDY,
JOHN PAINE GAGE,
ROYAL HENRY GLADDING,
ISAAC PHILIP GREENE,
CHARLES FREDERIC HARPER,
GEORGE WASHINGTON CROCKETT HILL,
ALBERT EDWARD HYLAN,
WILLIAM CHAUNCY LANGDON JR.,
ARTHUR NEWTON LEONARD,
LOUIS MANSON LINCOLN,
JOHN HATHAWAY LINDSEY,
ARTHUR FRANCIS MCGINN,
CHARLES HENRY MERRIMAN JR.,
GORHAM NOBLE NORTON,
RICHARD OLNEY,
HERBERT GRAVES PARTRIDGE,
JOHN COMBE PEGRAM JR.,
JAMES ALDRICH PIRCE,
AUGUSTUS PHINEAS RECCORD,
HERBERT HOWARD RICE,
GEORGE NELSON RICHMOND,
HENRY KALLOCH ROWE,
FRANCIS MITCHEL SMITH,
JAMES EDWARD SMITH,
WILLIAM HENRY SMITH,
CHARLES STICKNEY,
RALPH WINFRED TOWER,
ALPHEUS DUDLEY TUCKER,
FRANK WILLIAM TUCKER,
ROBERT NORTHAM TURNER JR.,
BENJAMIN STANLEY WEBB.

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

MARSHALL STEWART BROWN,
WALTER LINCOLN CHASE,
MARTIN WILMARTH KERN,
FRANK WILLINGTON MATTESON,
HORACE MCFARLAND,
EDMUND BINGHAM MUNGER,
EDWARD DE VALLIE O'CONNOR,
WILLIAM HENRY O'NEIL,
HENRY MORGAN STONE,
HARRISON SOUTHWICK TAFT.

THE DEGREE OF CIVIL ENGINEER

ON

FRANK EDWARD WINSOR, B. P.

THE DEGREE OF MASTER OF ARTS

in connection with their respective classes

ON

OLIVER FRANCIS BRYANT, Class of 1858,
WALTER HOWARD MOORE, Class of 1867.

THE DEGREE OF BACHELOR OF ARTS

in connection with his class

ON

MICHAEL JOSEPH HARSON, Class of 1884.

THE DEGREE OF MASTER OF ARTS

after examination

ON

MARTIN SALISBURY BUDLONG, A. B.,
EDWIN GRANT DEXTER, B. P.,
ALBERT BUSHNELL JOHNSON, A. B.,
ERNEST HENRY JOHNSON, A. B.,
ALFRED SIMPSON TAYLOR, B. P.,
FRED EARLE WHITAKER, A. B.,
WALTER HARRIS YOUNG, A. B.

HONORARY DEGREES

THE DEGREE OF BACHELOR OF PHILOSOPHY

ON

NATHANIEL JAMES MCCARTHY.

THE DEGREE OF BACHELOR OF ARTS

ON

EDWARD FIELD.

THE DEGREE OF MASTER OF ARTS

ON

EDWIN EDDY CALDER,
HERBERT WARREN LADD,
GEORGE FREDERICK POPE,
WILLIAM MARSHALL FITTS ROUND,
LUCIAN SHARPE.

THE DEGREE OF DOCTOR OF SCIENCE

ON

ARNOLD BUFFUM CHASE,
OLIVER SPINK WESTCOTT.

THE DEGREE OF DOCTOR OF PHILOSOPHY

ON

JOSEPH HENRY GILMORE,
CHARLES BRADFORD GOFF.

THE DEGREE OF DOCTOR OF DIVINITY

ON

GEORGE MURILLO BARTOL,
JAMES OSGOOD ANDREW CLARK,
PHILIP STAFFORD MOXOM,
THOMAS HARWOOD PATTISON.

THE DEGREE OF DOCTOR OF LAWS

ON

NELSON WILMARTH ALDRICH,
OLIVER AMES,
FRANKLIN JACKSON DICKMAN,
WILLIAM PAINE SHEFFIELD.

STUDENTS

GRADUATES

CANDIDATES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

NAME	RESIDENCE
BERTHA BASS, A. M., Wesleyan, 1889, History, Political Science.	*Providence,* 11 Greene St.
ORRIS LYFORD BEVERAGE, A. M., Colby, 1887, Chemistry, German.	*Attleborough, Mass.*
ASA CLINTON CROWELL, A. M., 1889, German, French.	*Pawtucket.*
WILLIAM WOODSIDE CURTIS, A. M., Bowdoin, 1885, Philosophy, History.	*Pawtucket.*
CHARLES EDWARD DENNIS JR., A. M., 1890, Latin, Greek, Ancient History.	*Providence,* 56 Messer St.
WALTER GOODNOW EVERETT, A. M., 1888, Philosophy, Ethics.	*Providence,* 171 Pleasant St.
FREDERICK TAFT GUILD, A. M., 1891, Chemistry, German.	*Providence,* 10 Pitman St.
WALTER BALLOU JACOBS, A. M., 1885, Philosophy, Pedagogy.	*Providence,* 362 Point St.
ALBERT BUSHNELL JOHNSON, A. M., 1892, Romance Languages, German.	*East Providence.*
ERNEST HENRY JOHNSON, A. M., 1892, German, Romance Languages.	*East Providence.*
GOLDSBERRY BOBO MERRITT, A. M., Antioch, 1892, Semitic Languages, Philosophy of Religion.	*Fall River, Mass.*
ADRIAN SCOTT, A. M., 1891, Teutonic Languages and Mythology, Sanskrit.	*Blackstone, Mass.*
AUGUSTUS TABER SWIFT, A. M., 1890, German, French, English.	*Lakeville, Conn.*
MARTHA TARBELL, A. M., De Pauw, 1887, German, French.	*Providence,* 19 Power St.

CANDIDATES FOR THE DEGREE OF MASTER OF ARTS

NAME	RESIDENCE
JOHN LINCOLN ALGER, A. B., 1890, Physics, Mathematics.	*Providence*, 3 Angell Place.
EMILY FRANCES ALLEN, Ph. B., Boston Univ., 1891, English Literature, History.	*Boston, Mass.*, Box 2177.
GEORGE FREDERICK ANDREWS, A. B., 1892, Chemistry, English Literature.	*Providence*, 91 Almy St.
NEIL ANDREWS JR., A. B., 1892, History, History of Philosophy.	*Newton Centre, Mass.*
WALTER EVANS ANDREWS, A. B., 1891, Political Economy, English Literature.	*Worcester, Mass.*
ALBERT LESLIE BARBOUR, A. B., 1892, Political Science, Social Science.	*Ashton.*
EDWARD OTIS BARTLETT JR., A. B., 1891, German, French.	*Cornwall-on-Hudson, N. Y.*
JOSIAH BARTLETT, B. P., 1888, Mathematics, German.	*Sing Sing, N. Y.*
LOUISE PROSSER BATES, A. B., Boston Univ., 1881, Biology, German.	*Providence*, 37 Parade St.
ELI WHITNEY BLAKE JR., A. B., 1888, Zoölogy, English.	*Hampton, Va.*
ALFRED PALEY BOND, A. B., 1890, German, Philosophy.	*Mount Pleasant, Pa.*
ALEXANDER PHOENIX BOURNE, A. B., 1890, Social Science, Philosophy of Religions.	*Andover, Mass.*
EMMA ELIZABETH BROWN, A. B., Smith, 1891, Philosophy, German.	*Providence*, 11 Greene St.
MARSHALL STEWART BROWN, B. P., 1892, History, Political Science.	*Providence*, 34 Benevolent St.
HERBERT CARPENTER BROWNELL, A. B., 1892, Political Economy, Geology.	*Providence*, 73 Prospect St.
WARREN GARDNER BULLARD, A. B., 1892, Mathematics, Philosophy.	*Geneva, N. Y.*
JOSEPH EDMOND BULLEN, A. B., 1890, German, History, English Literature.	*Pelham Manor, N. Y.*
EDMUND CODY BURNETT, A. B., 1890, History, Political Economy.	*Mossy Creek, Tenn.*

NAME	RESIDENCE
THEODORE ELMER BUSFIELD, A. B., Tufts, 1880, American History, Political Economy.	*New Haven, Ct.*, 64 Shirland Ave.
WILLIAM ALLEN CALDWELL, A. B., Cumberland, 1892, Greek, German, Latin, Spanish.	*Lebanon, Tenn.*
LUCIA MARIA CLAPP, B. S., Smith, 1889, Zoölogy, Chemistry.	*Providence*, 26 Cabot St.
STEPHEN SHELDON COLVIN, B. P., 1891, English Literature and Language.	*Providence*, 47 Camp St.
JAMES QUAYLE DEALEY, A. B., 1890, Greek, German.	*Saxton's River, Vt.*
WILLIAM RICHARDSON DORMAN, A. B., 1892, Social Science, German Literature.	*Brooklyn, N. Y.*, 111 Park Pl.
FRANK TOURTELLOT EASTON, A. B., 1892, Political Science, Social Science.	*New York City*, Tribune Office.
WILLIAM HOLDEN EDDY, A. B., 1892, German, Romance Languages.	*Providence*, 36 Bradford St.
GEORGE HOOPER FERRIS, A. B., 1891, Philosophy, English.	*Milwaukee, Wis.*
EDGAR BENJAMIN FRENCH, A. B., 1890, German, Philosophy.	*Pawtucket.*
HERSCHEL LUTHER GARDNER, A. B., Columbia, 1892, Constitutional History, Constitutional Law.	*New York City*, 118 E. 45th St.
JOHN FRANCIS GREENE, A. B., 1891, American History, German, Spanish.	*Seekonk*, 34 Benevolent St.
WILLIAM JOHN GREEN, A. B., 1891, Ethics, English History.	*New York City.*
EDGAR HOMER GROUT, A. B., 1885, History, English.	*Woodbury, Conn.*
JOHN FREDERICK HALLER, M. D., German, English Literature, Rhetoric.	*Providence*, 457 Broad St.
HENRY HARMON HASTINGS, A. B., Bowdoin, 1890, Constitutional History, Constitutional Law.	*Pawtucket.*
ELLEN MARIA HINDS, A. B., Smith, 1889, English, Mathematics.	*Providence*, 103 Governor St.
GEORGE JAMES HOLDEN, A. B., 1891, Constitutional History, Political Economy.	*Altoona, Pa.*

NAME	RESIDENCE
DENNIS JOSEPH HOLLAND, B. P., 1890, German, Romance Languages.	*Providence,* 965 Broad St.
ARTHUR PLINY JOHNSON, A. B., 1888, German, English.	*Bristol.*
ELIZA SHAW KING, A. B., Vassar, 1890, Greek, Latin.	*Providence,* 38 Angell St.
MARTIN WILMARTH KERN, B. P., 1892, Mechanics, German.	*Providence,* 81 Chestnut St.
WILLIAM CHAUNCEY LANGDON JR., A. B., 1892, English Literature, Philosophy.	*Providence,* 38 Barnes St.
ARTHUR NEWTON LEONARD, A. B., 1892, German, Romance Languages.	*Providence,* 71 Providence St.
ALEXANDER MARSHALL, B. P., 1888, M. D., Physiology, Chemistry.	*Ashton.*
HORACE MCFARLAND, B. P., 1892, Anthropology, Geology.	*Portland, Me.*
CHARLES ALBERT MEADER, A. B., 1891, German.	*Pawtucket.*
LEWIS HAMILTON MEADER, A. M., Dartmouth, History, German.	*Providence.*
EDWARD DEVALLIE O'CONNOR, B. P., 1892, Political Science, Social Science.	*Cambridge, Mass.,* 1697 Cambridge St.
WILLIAM HENRY O'NEIL, B. P., 1892, History, German.	*Providence,* 10 Kepler St.
HENRY ROBINSON PALMER, A. B., 1890, History, English.	*Stonington, Conn.*
HENRY FENNO PARKER, A. B., 1889, Geology, Pre-historic Archaeology.	*Brockton, Mass.*
GEORGE HERBERT PERKINS, A. B., Harvard, 1884, Mathematics, Advanced Mechanics.	*Providence,* 19 Angell St.
JAMES ALDRICH PIRCE, A. B., 1892, History.	*Johnston.*
WILLIAM JOB REYNOLDS, A. B., 1886, Semitic Languages, Oriental History.	*Providence,* 268 Waldo St.
WALTER HERBERT RUSSELL, A. B., Boston, 1877, German, French.	*Barrington Centre.*
DENNIS HARVEY SHEAHAN, A. B., 1889, History.	*Providence,* 138 Veazie St.

NAME	RESIDENCE
ARTHUR WARREN SMITH, A. B., 1890, Greek.	*College Hill, Ohio.*
GERALD BIRNEY SMITH, A. B., 1891, Philosophy, American Political History.	*Oberlin, O.*
PERCY DINSMORE SMITH, A. B., 1889, History.	*Glocester.*
DAVID GRANT SMYTH, A. B., 1889, Mathematics.	*Hartford, Conn.*
HENRY MORGAN STONE, B. P., 1892, English Literature and Language.	*Providence,* 24 Linden St.
FREDERICK EMERSON STOCKWELL, A. B., 1890, Philosophy of Religion, Political and Social Science.	*Providence,* 20 Cooke St.
EDWARD ALLEN SWAIN, A. M., 1885, Latin.	*Providence,* 15 Charles Field St.
RALPH WINFRED TOWER, A. B., 1892, Comparative Anatomy, Embryology.	*Providence.* University, 46.
FRANK WILLIAM TUCKER, A. B., 1892, Sociology, German.	*Worcester, Mass.,* Worcester Academy.
GEORGE BUCKLEY WAKEMAN, A. B., 1884, Greek, Latin, German.	*Havana, N. Y.*
HERBERT EUGENE WALTER, A. B., Bates, 1892, Comparative Anatomy, Embryology.	*Providence,* University, 46.
HARRIET MAY WHITE, A. B., Smith, 1886, Latin, Greek.	*Woonsocket,* 141 Blackstone St.
WILLIAM ALLEN WILBUR, A. B., 1888, Mediaeval and Modern History, Latin, English.	*West Bridgewater, Mass.*
ELMER ALMY WILCOX, A. B., 1891, Sociology, Political Economy.	*Providence,* 59 Messer St.
EDGAR LINCOLN WILLARD, A. B., 1891, English Literature, Ethics.	*Oxford, Mass.*
FRANK EDWARD WINSOR, B. P., 1891, Geology, German.	*Boston,* 93 Lincoln St.
LEVERETT SUPPLY WOODWORTH, A. B., 1872, Ecclesiastical History.	*Providence,* 5 Rhode Island Ave.
WALTER ALLEN YOUNG, B. P., 1891, Mathematics, Advanced Mechanics.	*Slatersville.*

SPECIAL COURSE.

NAME	RESIDENCE
ELIZABETH GUILD HOYT, A. B., Wellesley, 1891, Practical Astronomy.	*Providence,* 36 Humboldt Av.

UNDERGRADUATES

SENIOR CLASS

NAME	RESIDENCE	ROOM
Earl Chapman Arnold,	*Providence,*	3 Myrtle St.
Henry Ward Beecher Arnold,	*Hopedale, Mass.,*	Hope, 12.
Henry Ames Barker,	*Providence,*	93 Melrose St.
Herbert Gould Beede,	*Central Falls,*	Hope, 16.
Arthur Train Belknap,	*Framingham, Mass.,*	University, 33.
Robert Marshall Brown,	*Northbridge, Mass.,*	Hope, 43.
William Judson Brown,	*Tiverton,*	Slater, 11.
Lewis Judson Bullard,	*Manchester, N. H.,*	Hope, 31.
William Burdick,	*Newport,*	Slater, 9.
Edward Norton Casey,	*Whiting, Vt.,*	Hope, 42.
John Laertes Casey,	*Whiting, Vt.,*	Hope, 48.
Arnold Buffum Chace Jr.,	*Providence,*	Slater, 4.
Seth Howard Chace,	*East Freetown, Mass.,*	Hope, 9.
William Everett Chalmers,	*Paterson, N. J.,*	Hope, 41.
Frederick Shepard Cheney,	*Providence,*	Hope, 19.
Thomas Patrick Corcoran,	*Pawtucket,*	Pawtucket.
Robert Cushman,	*Providence,*	Slater, 4.
Herbert Ernest Day,	*Danielsonville, Conn.,*	Hope, 16.
Edwin Bailey Dolan,	*Bolton, Mass.,*	Hope, 47.
Orin Parker Durkee,	*Warrenville, Conn.,*	University, 25.
Harry St. John Filmer,	*Webster, Mass.,*	Slater, 19.
John James Fitzgerald,	*Pawtucket,*	University, 34.
Irving Lysander Foster,	*East Killingly, Conn.,*	Hope, 16.
Albert Knight Gerald,	*Providence,*	University, 51.
Robert Remington Goff,	*Providence,*	Slater, 4.
Frederic Poole Gorham,	*Providence,*	103 Knight St.
Stephen Allen Hopkins,	*Providence,*	University, 10.

NAME	RESIDENCE	ROOM
Daniel Howard,	*Providence,*	247 Public St.
Horace Edgar Jacobs,	*Providence,*	967 Broad St.
Ben Johnson,	*Elyria, O.,*	University, 28.
Edgar Mann Johnson,	*East Providence,*	East Providence.
William Dawson Johnston,	*Kalamazoo, Mich.,*	96 George St., 11.
John Davis Edmands Jones,	*Worcester, Mass.,*	University, 17.
Frederic Pierpont Ladd,	*Moosup, Conn.,*	457 Washington St.
Leslie Elias Learned,	*Lonsdale,*	University, 35.
Frank Grant Lewis,	*Hedgeville, N. Y.,*	Hope, 12.
Arthur Joseph Llewellyn,	*Providence,*	University, 28.
William Henry Magill,	*Providence,*	Hope, 5.
Archibald Claflin Matteson,	*Providence,*	University, 18.
Charles Herbert McLane,	*Providence,*	228 Fountain St.
Alexander Meiklejohn,	*Pawtucket,*	University, 41.
Wendell Axtell Mowry,	*Woonsocket,*	Hope, 22.
Edwin Barnes Niver,	*Providence,*	138 Smith St.
Winthrop John Vanleuven Osterhout,	*Providence,*	31 Oak St.
Charles Howard Phelps,	*Central Bridge, N. Y.,*	88 Meeting St.
Charles Marshall Poor,	*Manchester, N. H.,*	Hope, 31.
Charles Appleton Powers,	*Bolton, Mass.,*	Hope, 47.
William Stewart Reoch,	*Phenix,*	Hope, 19.
Walter Scott Reynolds,	*Glocester,*	Hope, 22.
Herbert Augustus Richards Jr.,	*Providence,*	27 Parade St.
Thomas Harwood Rothwell,	*Providence,*	30 Tobey St.
Arthur William Rowell,†	*Manchester, N. H.,*	Hope, 32.
Lucian Sharpe Jr.,	*Providence,*	Slater, 2.
Walter Edward Smith,	*Providence,*	60 Jenkins St.
Daniel Cory Snow,	*West Harwich, Mass.,*	Hope, 12.
Elliott Francis Studley,	*Providence,*	24 Pavilion Ave.
Edward Anthony Thurston,	*Fall River, Mass.,*	Slater, 11.
Carl Vernon Tower,	*Dayton, O.,*	University, 44.
Frank Arthur Updike,	*Daggett's Mills, Pa.,*	96 George St., 2.
Joseph Walther,	*Bridgeport, Conn.,*	Hope, 43.
Edward Henry Weeks,	*Barrington,*	Barrington.
Alfred Reynolds Wightman,	*Wickford,*	University, 26.

† Conditioned on work of preceding year.

JUNIOR CLASS

NAME	RESIDENCE	ROOM
Charles Spaulding Aldrich,	*Perkinsville, Vt.*,	Hope, 24.
Henry Milton Barry,	*Saxton's River, Vt.*,	Hope, 42.
Chester Willard Barrows,	*Providence*,	Hope, 6.
James Davis Bennett,†	*Hope Valley*,	96 George St., 9.
John William Beverly,	*Montgomery, Ala.*,	3 Hughes St.
Russell Hall Birge,	*Providence*,	814 North Main St.
Francis Chase Bliss,	*Newport*,	240 Benefit St.
William Clifton Bourne,	*Pawtucket*,	12 Sisson St.
William Alva Brady,	*Brooklyn, N. Y.*,	Slater, 8.
Samuel Willard Bridgham,	*East Providence*,	Hope, 36.
Walter Dexter Brownell,	*Providence*,	73 Prospect St.
Herbert Daniel Casey,	*Whiting, Vt.*,	Hope, 48.
George Mason Chamberlin,	*Orange, Mass.*,	112 George St.
Frederick Wilkinson Colburn,	*Holliston, Mass.*,	University, 59.
Harold Congdon,†	*Providence*,	University, 22.
Clayton Sedgwick Cooper,	*Henderson, N. Y.*,	University, 48.
Thomas Crosby Jr.,	*Newport*,	Slater, 20.
George Marcus Crowell,	*Providence*,	861 North Main St.
William Tully Dorrance,	*Providence*,	98 Waterman St.
William Douglas,	*Indianapolis, Ind.*,	107 Prospect St.
Robert William Drawbridge,†	*Middleton, N. H.*,	Hope, 27.
Hezekiah Anthony Dyer,	*Providence*,	Hope, 35.
Charles Haigh Ellis,	*North Billerica, Mass.*,	Hope, 27.
George Sheldon Ellis,	*Alleghany, N. Y.*,	Hope, 3.
Adolph Conrad Ely,	*Plantsville, Conn.*,	University, 13.
Eugene Ellsworth Everett,	*Providence*,	7 Church St.
John Russell Ferguson,	*Fall River, Mass.*,	Hope, 26.
Harold Crins Field,	*Providence*,	Slater, 5.

† Conditioned on work of preceding year.

NAME	RESIDENCE	ROOM
Jay Schuyler Fox,	*Three Mile Bay, N. Y.*,	University, 48.
Archie Norwood Frost,	*Lawrence, Mass.*,	University, 54.
Edward Francis Gamwell,	*Holliston, Mass.*,	Hope, 13.
George Warren Gardner,	*Biddeford, Me.*,	Slater, 20.
Daniel Farrington George,	*Providence*,	University, 18.
William Fraser Grant,†	*Providence*,	85 Lippitt St.
Clifford Henry Griffin,	*Providence*,	25 Division St.
Livingston Ham,	*Providence*,	2 Angell St.
William Henry Thomas Hamill,	*Bristol*,	Bristol.
George Robinson Hazard,	*Newport*,	Hope, 39.
Harold Dexter Hazeltine,	*Warren, Pa.*,	University, 43.
Carl Ernest Healy,	*Fall River, Mass.*,	Hope, 26.
Samuel McPherson Higgins,	*Flemington, N. J.*,	Hope, 44.
William Colver Hill,	*Malden, Mass.*,	University, 10.
William Pitt Hinckley,	*Providence*,	89 Waterman St.
George Woodley Hogg,	*Providence*,	34 Congdon St.
John Hope,	*Augusta, Ga.*,	Hope, 45.
William Caswell Huntoon,	*Providence*,	University, 40.
Francis Chester Rockwell Jackson,	*Delavan, Wis.*,	University, 33.
Walter Hammond Kimball,	*Providence*,	University, 21.
Richard Williams Kirkley,	*Toledo, O.*,	University, 19.
Edwin Knowles Jr.,	*Providence*,	Slater, 16.
Elliott Woodbury Lamson,	*Hamilton, Mass.*,	12 Camp St.
Joseph West Lewis,	*Providence*,	Slater, 13.
Robert Stuart MacGregor,	*St. Andrews, Canada*,	Hope, 38.
Benjamin Elbridge Martin,	*North Swansea, Mass.*,	Hope, 9.
Frederick William Marvel,	*Rehoboth, Mass.*,	University, 19.
Joseph Belfield McIntyre,	*Providence*,	Hope, 19.
Edward Bruce Merriman,	*Nayatt*,	Nayatt.
Harold Thurston Merriman,	*Nayatt*,	Nayatt.
Francis Wayland Miner Jr.,	*Providence*,	Hope, 36.
James Spencer Moore,	*East Providence*,	Hope, 17.
Allan Benton Morton,	*Kingston, Pa.*,	Hope, 6.
William Washburn Moss,	*Providence*,	Hope, 6.
Edgar Smiley Nash,	*Philadelphia, Pa.*,	Slater, 7.

† Conditioned on work of preceding year.

NAME	RESIDENCE	ROOM
Charles Spurgeon Nightingale,	*Louisville, Ky.*,	University, 59.
Joseph Berchman O'Neill,	*Pawtucket*,	University, 54.
David Bangs Pike,	*Providence*,	Hope, 20.
Albert Joseph Pope,	*Lee, Mass.*,	University, 13.
Samuel Willard Richardson,	*Painesville, O.*,	Slater, 4.
Louis Alexandre Roux,	*Saxton's River, Vt.*,	Hope, 14.
Henry Dexter Sharpe,	*Providence*,	56 Angell St.
John Smith Shippee,	*East Greenwich*,	East Greenwich.
Henry Bennett Slade,	*Providence*,	Hope, 27.
Francis Hamilton Staples,	*Worcester, Mass.*,	Slater, 5.
Frank Steere,	*Glocester*,	Glocester.
Frederick Eugene Steere,	*Johnston*,	University, 50.
Morton Collins Stewart,	*Quincy, Ill.*,	University, 10.
Mahlon Runyon Stout,	*New Brunswick, N.J.*,	Hope, 10.
William Cowper Stratton,	*Milford, N. H.*,	University, 60.
Israel Strauss,	*Pawtucket*,	Pawtucket.
Howard Edwin Sumner,†	*Worcester, Mass.*,	Slater, 5.
Foster Williams Taft,	*Providence*,	102 Waterman St.
Fred Tenney,	*Georgetown, Mass.*,	29 Angell St.
Albert Ellsworth Thomas,	*Brockton, Mass.*,	Slater, 14.
Lewis Anthony Waterman,	*Providence*,	96 Chapin Ave.
Eugene Crawford Williams,	*Pawtucket*,	Pawtucket.
Roddo York Young,†	*Ottawa, Ks.*,	University, 52.

† Conditioned on work of preceding year.

SOPHOMORE CLASS

NAME	RESIDENCE	ROOM
Herbert Matthews Adams,	*Pawtucket,*	University, 10.
W Scott Adams,†	*Agawam, Mass.,*	Hope, 46.
Fred Davis Aldrich,	*Webster, Mass.,*	University, 57.
Guy Ashton Andrews,	*Providence,*	72 College St.
George Allen Anthony,	*Drownville,*	Drownville.
John Clinton Anthony,	*Fall River, Mass.,*	Hope, 7.
George Richard Atha,	*Pawtucket,*	University, 19.
William Henry Atwood,	*New Bedford, Mass.,*	Hope, 11.
George William Bartlett,	*Pawtucket,*	Hope, 8.
George Phippen Beckford,	*Manchester, N. H.,*	Hope, 32.
Wayland Louis Beers,	*Washington, N. J.,*	Hope, 30.
Oscar Francis Bellows,	*Providence,*	University, 36.
Fred Bement,	*Suffield, Conn.,*	Slater, 18.
William Arthur Burt,	*Providence,*	236 Friendship St.
John Weston Butler,	*East Greenwich,*	East Greenwich.
Walter Guyton Cady,	*Providence,*	Slater, 6.
Daniel Champlin Chace,	*Providence,*	362 Point St.
Frederick Otis Clapp,	*Providence,*	11 Bridgham St.
Theron Clark,	*Colchester, Conn.,*	University, 30.
Raymond Capron Cook,	*Woonsocket,*	Hope, 40.
Henry Elliott Cooper,	*Pawtucket,*	Slater, 7.
Walter Theodore Crosby,	*Brockton, Mass.,*	Slater, 15,
Nathaniel Wheaton Dexter,	*Pawtucket,*	University, 40.
Jay Rogers Dickinson,	*Beaver Dam, Wis.,*	96 George St., 3.
Samuel White Duncan Jr.,	*Haverhill, Mass.,*	Slater, 6.
Albert Milton Dunham,	*Attleborough, Mass.,*	Hope, 8.
Stafford Clarence Edwards,	*Lambs Corners, N. Y.,*	402 Weybosset St.
Franklin Davenport Elmer,	*West Hartford, Conn.,*	Hope, 10.

† Conditioned on work of preceding year.

NAME	RESIDENCE	ROOM
Arthur Llewellyn Eno,	*Charlotte, Vt.*,	University, 57.
Pierson Thorn Fort,	*Pemberton, N. J.*,	Hope, 44.
Will Edward Gardner,	*Nantucket, Mass.*,	Hope, 17.
Herve Washington Georgi,	*Jamestown, N. Y.*,	University, 28.
George Andrew Gordon,	*Worcester, Mass.*,	162 Prospect St.
Howard Marsh Grant,	*Providence*,	20 Brighton St.
Alexander Emor Harrington,	*Johnston*,	University, 45.
Albert Lewis Hibbard,	*Dunham, Que.*,	Hope, 2.
Fred Ellis Horton,	*Providence*,	31 State St.
Henry Joseph Hoye,	*Providence*,	Slater, 12.
Arthur Johnson Hull,	*Monroe, Conn.*,	University, 57.
Edward Perkins Jastram,	*Providence*,	Slater, 16.
Elisha Tucker Peirce Jenks,	*Middleborough, Mass.*,	Slater, 12.
Hazen Kimball,	*New Market, N. H.*,	21 Brown St., 5.
Elno Dustin Laucey,	*Brookline, N. H.*,	Ladd Observatory.
James Lawson,	*Jamestown, N. Y.*,	University, 28.
William Edward Leathe,	*Taunton, Mass.*,	Hope, 18.
Arthur Amsden Macurda,	*Watertown, Mass.*,	Hope, 8.
Henry Mahoney,	*Providence*,	32 Bellevue Ave.
William McDonald Jr.,	*Albany, N. Y.*,	51 Angell St.
Philip Talmage McGown,	*Amherst, N. H.*,	University, 60.
Fred Winchester Mears,	*Newton Centre, Mass.*,	Hope, 46.
Lester Meseroll,	*New Brunswick, N.J.*,	Hope, 44.
William Henry Millington,	*Chesterfield, N. Y.*,	Hope, 30.
Frank Henry Morris,	*Providence*, .	34 Meeting St.
Charles Jerome O'Connor,	*Providence*,	187 Camp St.
William Thomas O'Donnell,	*Bristol*,	University, 44.
George Harwood Olney,	*Cherry Valley, Mass.*,	Slater, 17.
Sumner Tingley Packard,	*Brockton, Mass.*,	Slater, 15.
Fred Arthur Robinson,	*Greenville, N. H.*,	Hope, 28.
Albert Waterman Rounds,	*Providence*,	Hope, 35.
Edward Armington Sammis,	*Johnston*,	University, 45.
Dallas Lore Sharp,	*Bridgeton, N. J.*,	62 George St.
Fred Eldredge Sharp,	*Whitman, Mass.*,	21 Brown St., 13.
Edwin Angell Skinner,	*Bristol*,	Hope, 26.
Jesse Fowler Smith,	*East Hartford, Conn.*,	Hope, 21.
Frederick Slocum,	*New Bedford, Mass.*,	Hope, 11.

NAME	RESIDENCE	ROOM
Louis Almon Squires,†	*Cortland, N. Y.,*	Slater, 10.
Allan Prescott Stevens,	*Bristol,*	21 Brown St , 11.
Roy Walter Sumner,	*Worcester, Mass.,*	Slater, 7.
George Henry Sweet,	*Fall River, Mass.,*	Slater, 11.
John Campbell Swift,	*New Bedford, Mass.,*	Hope, 11.
Royal Chapin Taft Jr.,	*Providence,*	79 Waterman St.
William George Tarbox,	*Andover, Conn.,*	Hope, 21.
Lucien Edward Taylor,	*Providence,*	98 Whitmarsh St.
John Avery Tillinghast,	*Pawtucket,*	University, 28.
Edgar Luther Tinkham,	*Providence,*	100 Courtland St.
Amasa Randall Tourtellot Truex,	*Binghampton, N. Y.,*	University, 50.
Richard Miner Vaughan,	*Bangor, Wis.,*	Hope, 34.
Francis Willis Wamsley,	*Bridgeton, N. J.,*	R. I. Hall.
John Franklin Watts,	*Lynn, Mass.,*	University, 30.
Paul Maurice White,	*Woonsocket,*	Hope, 40.
Hobart Augustus Whitman,	*Worcester, Mass.,*	Slater, 4.
Benjamin Williams,	*Jackson, Mich.,*	Hope, 38.
Frederic Wallace Williams,	*Fox Lake, Wis.,*	Hope, 33.
William Frederick Wilson,	*Somerset, Mass.,*	University, 30.
Louis Victor Campbell Winter,	*Staten Island, N. Y.,*	University, 12.
Augustus Judson Wood,	*Fall River, Mass.,*	Hope, 7.
Peter Clark Wright,	*Merton, Wis.,*	Hope, 34.
Walter Cornelius Wyckoff,	*Red Bank, N. J.,*	Hope, 30.

† Conditioned on work of preceding year.

FRESHMAN CLASS

NAME	RESIDENCE	ROOM
James Ellis Ames,	*Brockton, Mass.*,	Hope, 1.
Charles Montgomery Angle,	*Stroudsburg, Pa.*,	96 George St., 12.
Charles Baldwin Bacon,	*Hanover, Mass.*,	University, 47.
Justin Homer Bacon,	*Bellows Falls, Vt.*,	96 George St., 16.
Allan Buell Bicknell,	*Providence*,	Hope, 1.
William Carpenter Bliss,	*East Providence*,	19 College St.
Charles Allen Boyd,	*Woodbury, Conn.*,	96 George St., 15.
Edwin Putnam Brown,	*Beaver Dam, Wis.*,	Hope, 34.
Edward Everett Bucklin,	*Providence*,	162 Clifford St.
Champlin Burrage,	*Portland, Me.*,	University, 25.
George White Chipman,	*Wareham, Mass.*,	21 Brown St.
Chester Stanley Churchill,	*Whitman, Mass.*,	Hope, 2.
Samuel Belden Churchill,	*Pittsfield, Mass.*,	East Providence.
Robert Harvey Day,	*Providence.*	Douglas St.
Charles Frederick Deacon,	*Pawtucket*,	32 Carver St.
Leon Hayes Denison,	*Deep River, Conn.*,	96 George St., 8.
Horace Paul Dorman,	*Salem, N. J.*,	96 George St., 12.
Gasherie De Witt Dowling,	*Philadelphia, Pa.*,	University, 47.
Charles Reginald Easton,	*Pawtucket*,	25 Hawes St.
Burton Sanderson Flagg,	*Littleton, Mass.*,	96 George St., 8.
George Frederick Frost,	*Hyde Park, Mass.*,	30 Congdon St.
Clarence Mason Gallup,	*Norwich, Conn.*,	University, 52.
Irving Henry Gamwell,	*Holliston, Mass.*,	Hope, 13.
Seth Ashley Gibson,	*Providence*,	University, 31.
Ronald Conrad Green,	*Providence*,	14 John St.
Harry Sylvester Greene,	*Woonsocket*,	Hope, 4.
Carleton Hale,	*Providence*,	24 Barnes St.
Joseph Hewett,	*Brockton, Mass.*,	Slater, 3.
George Clarke Hinckley,	*Providence*,	89 Waterman St.
Lester Carl Holmberg,	*Campello, Mass.*,	Slater, 3.
Herbert Bradford Horton,	*East Providence*,	Hope, 17.

NAME	RESIDENCE	ROOM
Gardner Kirk Hudson,	*Fitchburg, Mass.*,	Hope, 8.
Joseph Alphonsus Hughes,	*Pawtucket*,	Pawtucket.
John Mercer Hunt,	*Hancock Bridge, N.J.*,	96 George St. 13.
Henry Felton Huse,	*Boston, Mass.*,	University, 55.
Edward West Johnson,	*Keene, N. H.*,	96 George St., 15.
Frederick Augustus Jones,	*Black River Falls, Wis.*,	96 George St., 3.
Frederick William Jones,	*Worcester, Mass.*,	University, 17.
Alvan Alden Kempton,	*Newport, N. H.*,	Hope, 28.
Howard Day Kenyon,	*Pawtucket*,	22 Brown St.
Herbert Bowman Lang,	*Andover, Mass.*,	21 Brown St., 6.
Abram Le Grand,	*Milwaukee, Wis.*,	87 Benefit St.
John Bosworth Lewis,	*Providence*,	University, 27.
Edward Allen Locke,	*Whitman, Mass.*,	Hope, 2.
Harry Saxton Mabie,	*Boston, Mass.*,	Hope, 24.
George Arnold Matteson,	*Providence*,	University, 18.
Alfred Bertrand Meacham,	*Stoneham, Mass.*,	University, 16.
William Francis Miner,	*East Providence*,	Hope, 17.
Wesley Elias Monk,	*Campello, Mass.*,	Hope, 1.
Albert Swift Morse,	*Fairhaven, Mass.*,	Hope, 25.
Edward Baily Morse,	*Grafton, Mass.*,	University, 31.
Timothy Ambrose Mulligan,	*Woonsocket*,	Hope, 4.
John Samuel Murdock,	*Moosup, Conn.*,	96 George St., 16.
Fred Brown Owen,	*Jewett City, Conn.*,	Georgiaville.
Earnest Victor Page,	*Johnston*,	University, 45.
George Lincoln Parker,	*Fitchburg, Mass.*,	21 Brown St., 12.
Robert Simmons Phillips,	*New Bedford, Mass.*,	21 Brown St., 11.
William Edward Price,	*Brockton, Mass.*,	Slater, 14.
Elmer Jeremiah Rathbun,	*Noose Neck*,	18 Custom Hou'e St.
James Helme Rickard Jr.,	*Woonsocket*,	96 George St., 7.
Edward Sandford Roberts,	*Providence*,	University, 31.
Edward North Robinson,	*Danvers, Mass.*,	Hope, 43.
Will Austin Robinson,	*East Gloucester, Mass.*,	257 Benefit St.
Henry Hall Rockwell,	*Chicago, Ill.*,	University, 58.
William Webster Rugg,	*Perkinsville, Vt.*,	Hope, 14.
Frank Page Sackett,	*Providence*,	University, 22.
George Lewis Sammis,	*Johnston*,	University, 45.
William Briggs Savery,	*Attleborough, Mass.*,	Attleborough.

NAME	RESIDENCE	ROOM
Henry Lawrence Smith,	*Providence*,	242 Wayland Ave.
Howard Revere Smith,	*Portsmouth, N. H.*,	51 Angell St.
John William Smith,	*Providence*,	132 Rhodes St.
Allison Stone,	*Providence*,	24 Linden St.
Arthur Crowell Stone,	*Providence*,	University, 41.
Samuel Richmond Stratton,	*Salem, N. J.*,	96 George St., 13.
Mason Martin Swan,	*Belleville, N. Y.*,	96 George St.
Harry Luke Thompson,	*Providence*,	4 Avon St.
James Humphrey Thurston,	*Providence*,	64 Congdon St.
Charles Waterman Tupper,	*Olneyville*,	89 Plainfield St.
George Bickford Van Doren,	*Chaumont, N. Y.*,	Hope, 29.
Everett Lewis Walling,	*Woonsocket*,	Hope, 37.
Henry Herbert Waterman,	*Providence*,	503 Plain St.
James Primrose Whyte,	*Waukegan, Ill.*,	96 George St., 10.
Stephen Adams Wood,	*Brooklyn, N. Y.*,	51 Angell St.
Robert Young,	*Bristol*,	21 Brown St., 10.

Not Yet Matriculated

John Henry Harlow Alden,	*Middleborough, Mass.*,	Slater, 12.
Elmer Ellsworth Arnold,	*Edmeston, N. Y.*,	402 Weybosset St.
Carroll Harry Ash,	*Lisbon, N. H.*,	21 Brown St.
Brainard Avery,	*Upper Alton, Ill.*,	96 George St., 12.
Elmer Smith Bailey,	*Georgetown, Mass.*,	Slater, 17.
George Saunders Bullock Jr.,	*Warren*,	Warren.
Joseph Richard Bullock Jr.,	*Providence*,	30 Lockwood St.
Arthur Deerin Call,	*Cortland, N. Y.*,	21 Brown St., 12.
Malcom Greene Chace,	*Providence*,	40 Angell St.
Frederick Pierce Cole,	*Woonsocket*,	University, 32.
Frederick Morton Comee,	*Woonsocket*,	University, 32.
John Evans,	*Providence*,	Hope, 21.
Ralph Welcome Farnum,	*Providence*,	175 Bucklin St.
Charles Jay Foskett,	*Utica, N. Y.*,	University, 54.
Theodore Clyde Foster,	*Providence*,	University, 58.
William Avery Gaylord,	*Pawtucket*,	25 Main St.
George Francis Greene,	*Fall River, Mass.*,	Slater, 19.

NAME	RESIDENCE	ROOM
Frank Elliott Hall,	*Grafton, Mass.*,	Hope, 25.
Thaddeus Jerome Hayden,	*Providence*,	10 Congdon St.
George Hopkinson,	*Perkinsville, Vt.*,	96 George St., 14
Daniel Mansfield Hoyt,	*Minneapolis, Minn.*,	21 Brown St., 4.
Marcus Wilson Jernegan,	*Edgartown, Mass.*,	96 George St., 11.
William Augustine Jones,	*Providence*,	Slater, 2.
George Potter King,	*Arlington*,	Hope, 21.
James Henry Larkin,	*Woonsocket*,	Hope, 4.
Frederick Lent,	*Leicester, Mass.*,	21 Brown St., 13.
Robert Fox MacArthur,	*New York, N. Y.*,	University, 53.
William Alexander McAuslan,	*Providence*,	Slater, 13.
Charles McCarthy,	*Brockton, Mass.*,	University 34.
Theodore Clark Merrill,	*Providence*,	113 Chester Ave.
Albert Rodman Nichols,	*Providence*,	96 George St., 10.
Charles Palmer Nott,	*Burlington, Vt.*,	96 George St., 1.
William Pirce Otis,	*Providence*,	68 Wood St.
Edward Stark Parker,	*Providence*,	216 Benefit St.
Turner Rollinson,	*Providence*,	Slater, 18.
Frank Edward Smith,	*Brockton, Mass.*,	University, 34.
Charles Sumner Stedman,	*Albany, N. Y.*,	Hope, 23.
William Harris Steere,	*Providence*,	Hope, 9.
Daniel Wendell Taft,	*Uxbridge, Mass.*,	49 Waterman St.
Arthur Jewell Talcott,	*Woonsocket*,	University, 32.
Joseph Canfield Van Doren,	*Chaumont, N. Y.*,	Hope, 29.
Robert Churchill Vose,	*Providence*,	Slater, 19.
Walter Edwards Wright,	*Bristol*,	21 Brown St., 10.

SELECT COURSE

NAME	RESIDENCE	ROOM
Edward Burgess Aldrich,	*Providence,*	University, 18.
John Wardwell Angell,	*Providence,*	34 George St.
Clarence Newton Arnold,	*Providence,*	Slater, 10.
Theodore Barton Baylies,	*New Bedford, Mass.,*	University, 49.
Charles Francis Beirne,	*Providence,*	30 Dodge St.
Norman North Bishop,	*Lawrence, Mass.,*	96 George St., 4.
Jerome Bradford Bliss,	*Pawtucket,*	Pawtucket.
Robert Bonner Jr.,	*Providence,*	60 Williams St.
Jacob Winn Brown,	*Woburn, Mass.,*	Slater, 10.
Charles Sabin Bush,	*Providence,*	252 Broad St.
William Walter Bustard,	*Paterson, N. J.,*	Hope, 10.
Frank Livingston Caswell,	*Narragansett Pier,*	Slater, 8.
Merton Alfred Cheesman,	*Providence,*	204 Thayer St.
Jesse Beauregard Colbert,	*Providence,*	133 Lilac St.
John William Connelly,	*Fall River, Mass.,*	51 Angell St.
Edward Warren Corliss,	*Providence,*	University, 27.
Herbert Howard Cushing,	*Philadelphia, Pa.,*	22 Benevolent St.
Edward Francis Cunningham,	*Woonsocket,*	Hope, 19.
William Anthony Davison,	*Lonsdale,*	Lonsdale.
Joseph Charles Davis,	*Providence,*	197 Carpenter St.
Edward Francis Dowd,	*South Natick,*	South Natick.
George Herbert Eiswald,	*Providence,*	University, 10.
Ferdinand Joseph Feeley,	*Woonsocket,*	Hope, 5.
James Gallivan,	*Franklin, Mass.,*	20 Market Square.
Louis Joseph Gillon,	*Milford, Mass.,*	29 Benevolent St.
Collins Millard Graves,	*Bennington, Vt.,*	University, 43.
William Henry Greene,	*Roxbury, Mass.,*	51 Angell St.
George Robinson Cooper Hall,	*Providence,*	University, 21.
William Andrew Harris Jr.,	*Providence,*	140 Prospect St.
William Wirt Harvey,	*Providence,*	344 Public St.
Walter Stanley Hawkins,	*Stoneham, Mass.,*	Hope, 3.

NAME	RESIDENCE	ROOM
Stanley Henshaw,	*Providence*,	29 George St.
Herbert Faulkner Hill,	*Warren, Mass.*,	Hope, 3.
Garrett Hollihan,	*Providence*,	43 Sheldon St.
Harold Williams Hoyt,	*Providence*,	36 Humboldt Ave.
Joseph Oscar Johnson,	*Providence*,	264 Thayer St.
William Herbert Kenerson,	*Providence*,	Slater, 19.
Frank Edwin Lakey,	*Providence*,	127 Cranston St.
John DeWitt Larry,	*Providence*,	224 Broadway.
Harry Edwin Lewis,	*Providence*,	University, 57.
Charles Baldwin Mackinney,	*Providence*,	Providence.
Frank Heath Mason,	*Greenwich, N. Y.*,	22 Lloyd St.
Edward Arthur Maynard,	*Burlington, Vt.*,	96 George St., 1.
Stewart Alfred McComber,	*Globe Village, Mass.*,	Box 1295.
William Francis McGlynn,	*Central Falls*,	Central Falls.
Francis McMurray,	*West Fitchburg, Mass.*,	Hope, 33.
Lucius Herbert Newell,	*Pawtucket*,	University, 41.
Bernard Leo O'Donnell,	*Providence*,	Hope, 19.
William Warren Orswell,	*Pawtucket*,	Pawtucket.
Alpheus Appleton Packard,	*Providence*,	115 Angell St.
George Lafayette Rifenburg,	*Charlotteville, N. Y.*,	Slater, 18.
Robert Clark Sanger,	*Franklin Falls, N. H.*,	96 George St., 5.
Charles Albert Selden,	*Providence*,	Hope, 15.
Frank Joseph Sexton,	*Brockton, Mass.*,	Hope, 5.
Albert Beckwith Shields,	*Pontiac*,	Pontiac.
Frank Warren Sleeper,	*Franklin Falls, N. H.*,	96 George St., 5.
Edmund Job Steere,	*Providence*,	Hope, 9.
Alvin Bacon Preston Straight,	*Bradford, Pa.*,	Hope, 4.
Charles Harold Walling,	*Providence*,	8 Adelaide Ave.
Harry Clifford Whipple,	*Providence*,	Hope, 22.
Louis Winsor,	*Manton*,	Manton.

WOMEN'S COLLEGE

UNDERGRADUATE STUDENTS WHO ARE REGULAR CANDIDATES FOR BROWN UNIVERSITY EXAMINATIONS, RECEIVING UNOFFICIAL INSTRUCTION IN COLLEGE STUDIES.

Sophomore Class

NAME	RESIDENCE	ROOM
Beatrice Jennie Barker,	*Providence,*	27 Laura St.
Maude Anne Bonner,	*Providence,*	60 Williams St.
Clara Elizabeth Comstock,	*Providence,*	842 Broad St.
Nettie Serena Goodale,	*Pawtucket,*	128 Minl. Sprg. Av.
Bertha Abby Nichols,	*East Greenwich,*	East Greenwich.
Grace Church Paull,	*Bristol,*	Bristol.
Elizabeth Robina Peckham,	*Bristol,*	Bristol.
Anne Tillinghast Weeden,	*Providence,*	83 Brown St.
Mary Emma Woolley,	*Pawtucket,*	288 High St.

Freshman Class

NAME	RESIDENCE	ROOM
Isabel Warwick Bliss,	*Providence,*	235 Waterman St.
Sarah Jane Bullock,	*Pawtucket,*	208 East Ave.
Mabelle Alice Caffrey,	*Providence,*	24 Abbott St.
Grace Mabel Cleveland,	*East Providence,*	59 Broadway.

NAME	RESIDENCE	ROOM
Evelyn Olive Johnson,	*East Providence.*	East Providence.
Grace Edith Lamphear,	*Pawtucket,*	5 Miller St.
Maria Storrs Peck,	*Providence,*	106 George St.
Susie Robbins Scott,	*East Providence,*	East Providence.
Fanny Pearl Stacy,	*East Providence,*	East Providence.
Emma Bradford Stanton,	*Bristol,*	Bristol.
Helen Avonia Thomas,	*Providence,*	29 Angell St.
Marie Tifft,	*North Attleborough,*	North Attleborough.
Florence Josephine Whiting,	*Plainville, Mass.*	Plainville.
Edith Holmes Williston,	*Bristol,*	Bristol.

Special Students

NAME	RESIDENCE	ROOM
Jessie Loring Barker,	*Providence,*	93 Melrose St.
Ethel Marian Bonner,	*Providence,*	60 Williams St.
Florence Haile Bowen,	*Providence,*	186 Clifford St.
Leila Pearson Bowen,	*Providence,*	186 Clifford St.
Elizabeth Moon Chace,	*Valley Falls,*	Valley Falls.
Alice Louise Gardner,	*Warren,*	Warren.
Minnie Amelia Horton,	*Providence,*	82 Chapin Ave.
Carrie Cordelia Jenks,	*Central Falls,*	Central Falls.
Florence Ruth Kenyon,	*Providence,*	180 Lockwood St.
Emoline Ketchum,	*Providence,*	60 Bowen St.
Bertha Huntington Lyman,	*Providence,*	168 Peace St.
Clara Horton Maine,	*Providence,*	51 Parade St.
Martha Bowen Pearson,	*Providence,*	52 Ring St.
Ellen Ormsbee Peck,	*Providence,*	106 George St.
Amey Thurber,	*Providence,*	518 Broad St.
Mary Drew Vaughan,	*Providence,*	20 Marshall St.

SUMMARY

Graduates	88	Freshmen	126
Seniors	62	Select Course	61
Juniors	85	Women's College	39
Sophomores	88		
Total			549

SUMMARY BY STATES

Rhode Island	293	Maine	3
Massachusetts	111	Michigan	2
New York	34	Canada	2
Connecticut	23	Tennessee	2
New Hampshire	16	Virginia	1
Vermont	14	Georgia	1
New Jersey	13	Alabama	1
Pennsylvania	10	Indiana	1
Wisconsin	9	Kentucky	1
Ohio	6	Kansas	1
Illinois	4	Minnesota	1
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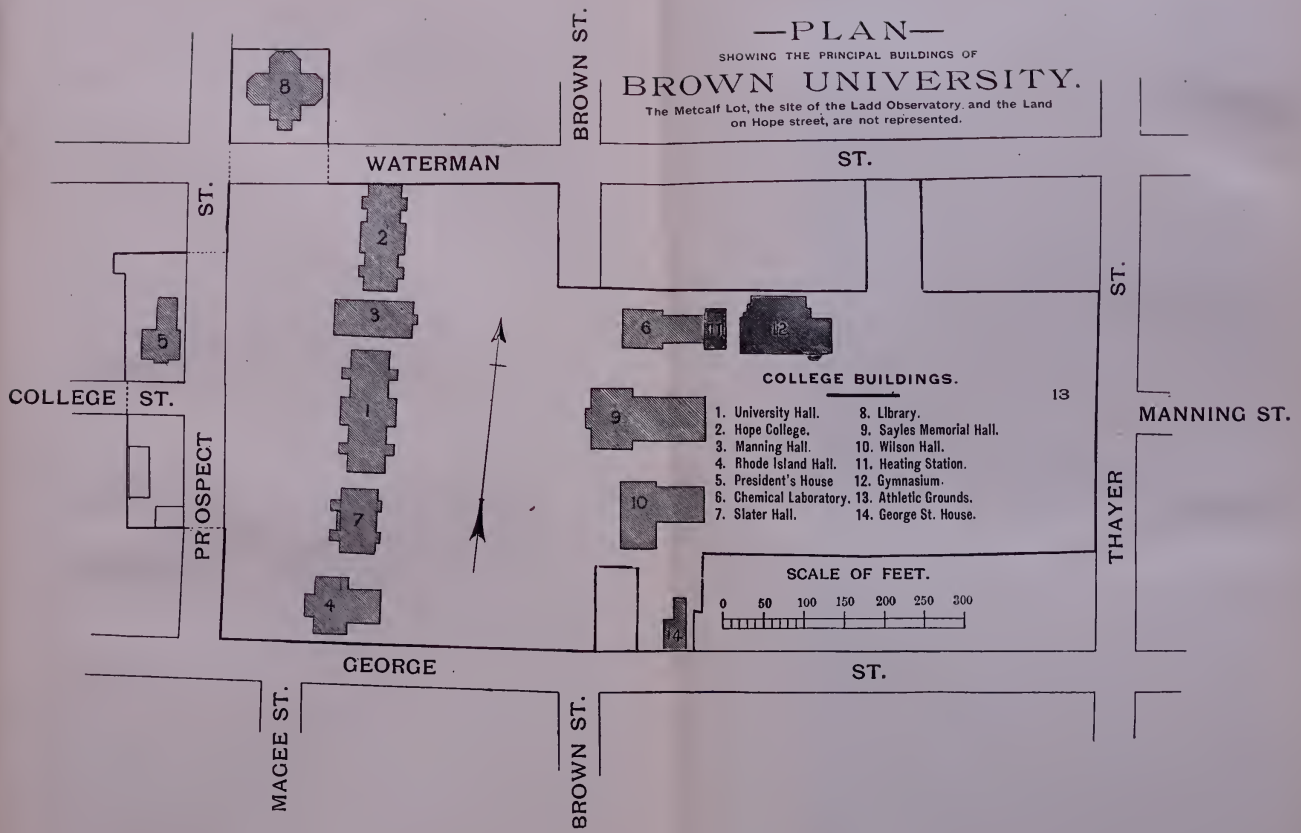
—PLAN—
SHOWING THE PRINCIPAL BUILDINGS OF
BROWN UNIVERSITY.
The Metcalf Lot, the site of the Ladd Observatory and the Land on Hope street, are not represented.
BROWN ST.
WATERMAN
ST.
ST.
ST.
COLLEGE ST.
PROSPECT
THAYER
MANNING ST.
GEORGE
ST.
MAGEE ST.
BROWN ST.
COLLEGE BUILDINGS.
1. University Hall.
2. Hope College.
3. Manning Hall.
4. Rhode Island Hall.
5. President's House
6. Chemical Laboratory.
7. Slater Hall.
8. Library.
9. Sayles Memorial Hall.
10. Wilson Hall.
11. Heating Station.
12. Gymnasium.
13. Athletic Grounds.
14. George St. House.
SCALE OF FEET.
0 50 100 150 200 250 300

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